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UNCLASSIFIED

FINAL TECHNICAL REPORT
(A008)
VOLUME 2

All Source Analysis System (ASAS)
Block I
Abbreviated HARDMAN Analysis
(- Tradeoff Analysis)
(Delivery Order Number 0041)

April 1992

Prepared for:

U.S. Army Training & Doctrine Command
(TRADOC)
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Contract Number
DABT60-87-D-3873

UNCLASSIFIED

STATEMENT A
public release;
on Unlimited

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SYSTEMS, INC.

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REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1a. REPORT SECURITY CLASSIFICATION Unclassified			1b. RESTRICTIVE MARKINGS N/A		
2a. SECURITY CLASSIFICATION AUTHORITY N/A			3. DISTRIBUTION AVAILABILITY OF REPORT Unlimited		
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE N/A					
4. PERFORMING ORGANIZATION REPORT NUMBER(S) A008 (DD Form 1423)			5. MONITORING ORGANIZATION REPORT NUMBER(S) N/A		
6a. NAME OF PERFORMING ORGANIZATION HAY Systems, Inc.		6b. OFFICE SYMBOL (If applicable)	7a. NAME OF MONITORING ORGANIZATION U.S. Army Training and Doctrine Command		
6c. ADDRESS (City, State, and ZIP Code) 2000 M Street, N.W. Suite 650 Washington, DC 20036-3307			7b. ADDRESS (City, State, and ZIP Code) ATTN: ATCA Ft. Eustis, VA 23604-5538		
8a. NAME OF FUNDING/SPONSORING ORGANIZATION USTAPC		8b. OFFICE SYMBOL (If applicable) TAPC-PI-MPT	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER DABT60-87-D-3873		
8c. ADDRESS (City, State, and ZIP Code) ATTN: TAPC-PI-MPT 200 Stovall Street Alexandria, VA 22332-1345			10. SOURCE OF FUNDING NUMBERS		
			PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO.
11. TITLE (Include Security Classification) All Source Analysis System (ASAS) Block I Abbreviated HARDMAN Analysis Final Technical Report, Volume II, Viewgraphs					
12. PERSONAL AUTHOR(S) James C. Whitfield, Kimball R. Stuhlmuller, Scott A. Jashinski, Edward Burke, Dean DeVault					
13a. TYPE OF REPORT Final Report		13b. TIME COVERED FROM November 1991 TO April 1992		14. DATE OF REPORT (Year, Month, Day) 1992, April	
15. PAGE COUNT 132					
16. SUPPLEMENTARY NOTATION Analysis performed in support of the All Source Analysis System Project Office, 1500 PRC Drive, McLean VA 22102					
17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)		
FIELD	GROUP	SUB-GROUP	All Source Analysis System (ASAS) HARDMAN Comparability Methodology (HCM) Manpower, Personnel, and Training (MPT) Analysis		
19. ABSTRACT (Continue on reverse if necessary and identify by block number) This report contains the viewgraphs that display the results obtained from application of the HARDMAN Comparability Methodology (HCM) to the Army's All Source Analysis System (ASAS) Block I configuration. The HCM was used to determine manpower, personnel, and training (MPT) requirements of the Block I ASAS, as well as the impacts of those requirements on the Army's current and future resources. Volume I of this report contains the narrative to supplement these viewgraphs.					
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT <input checked="" type="checkbox"/> UNCLASSIFIED/UNLIMITED <input type="checkbox"/> SAME AS RPT. <input type="checkbox"/> DTIC USERS			21. ABSTRACT SECURITY CLASSIFICATION Unclassified		
22a. NAME OF RESPONSIBLE INDIVIDUAL MAJ Richard Ward, ASAS Project Office			22b. TELEPHONE (Include Area Code) (703) 556-3081		22c. OFFICE SYMBOL SFAE-CC-INT-LL

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DTIC TAB	<input type="checkbox"/>
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ASAS BLOCK 1

HARDMAN ANALYSIS

BRIEFING

April 1992

HSI VER 3.0

ASAS BLOCK 1 MPT ANALYSIS

BRIEFING OUTLINE

- **SYSTEM DESCRIPTION**
- **MANPOWER ANALYSIS**
- **PERSONNEL ANALYSIS**
- **TRAINING ANALYSIS**
- **IMPACT ANALYSIS**
- **DISCUSSION**

ASAS BLOCK 1 MPT ANALYSIS

SYSTEM DESCRIPTION

- **EQUIPMENT / HARDWARE**
- **EQUIPMENT CONFIGURATION**
- **SOFTWARE**
- **MAINTENANCE CONCEPT**
- **FIELDING CONCEPT**

ASAS BLOCK 1 MPT ANALYSIS

EQUIPMENT AND HARDWARE

- WORKSTATIONS
- COMMUNICATION SETS
- DATA PROCESSING SET
- ENCLAVE SETS

ASAS BLOCK 1 MPT ANALYSIS

EQUIPMENT AND HARDWARE **WORKSTATION - TSE**

TOC SUPPORT ELEMENT ENCLAVE WORKSTATION:

WORKSTATION, COMPUTER GRAPHICS (WCG) AN/TYQ-37(V)5

- **COMPUTER, MICROVAX III - 1**
- **MONITOR, GRAPHICS, RUGGED - 2**
- **POWER SUPPLY - 1**
- **PRINTER ADP - 1**
- **DISK PACK - 1**
- **OPTICAL DISK DRIVE - 1**
- **KEYBOARD & MOUSE - 1**

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EQUIPMENT AND HARDWARE TCAE

TECHNICAL CONTROL AND ANALYSIS ELEMENT ENCLAVE CLUSTER * :

- **PLAYER, CD ROM - 1**
- **MONITOR, GRAPHICS, RUGGED - 3**
- **DISK DRIVE, 3-1/2" - 1**
- **TAPE DRIVE, 1/4" - 1**
- **PRINTER, COLOR - 1**
- **PRINTER, LASER - 1**
- **KEYBOARD & MOUSE - 3**
- **COMPUTER, CHASSIS - 2**
- **DISK DRIVE (DISK PACK) - 3**

*** 2 CLUSTERS PER ENCLAVE, EACH WITH 3 W/S**

ASAS BLOCK 1 MPT ANALYSIS

EQUIPMENT AND HARDWARE COMMUNICATIONS SET - CCS

COMMUNICATIONS CONTROL SET - AN/TYQ-40(V)2

- ECU FL/WL 18,000 BTU - 1
- ANTENNA - 2
- DCT AN / PSC-2 - 1
- ENCRYPTION DEVICE, TSEC/KG-84 - 1
- UHF CONTROL HEAD C-10739 - 1
- CONTROL RADIO SET C-6533/ARC - 1
- DATA LINK PROCESSOR - 1
- PUSH TO TALK ASSEMBLY - 1
- TERMINAL, DATA PROCESSING - 1
- DISK DRIVE UNIT, R/RUD-53 - 1
- COMPUTER, R-11/84 - 1
- LINE ADAPTER ASSEMBLY - 1
- PRINTER ADP - 2
- RECORDER, MDR-300 RADIO FREQ - 1
- POWER DIST AND CONTROL ASSY - 1
- COMM PROTOCOL PROCESSOR ASSY - 1
- CONVERTER UNBAL TO BAL - 2
- SHELTER S250G, MODIFIED - 1
- DISK DRIVE DISK PACK - 2
- MULTIPLEXER, TD-1289/GRC - 1
- UHF RADIO, RT-1288, ARC-164 - 1
- RADIO SET AN/VRC-92 - 2
- SPEECH SECURITY EQUIPMENT, TSEC/KY-57 - 1
- TELEPHONE, TA 838/TT - 1
- POWER SPLY VEHICULAR, HYP-57/TSEC - 1

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EQUIPMENT AND HARDWARE **COMMUNICATIONS SET - TCAC**

TECHNICAL CONTROL AND ANALYSIS CENTER

- DATA ANALYSIS CENTRAL(V)4 OR (V)5 - 1
- MAINTENANCE KIT 22 - 1
- MODEM CODEX (1 CHAS / 2 CHAN) - 1

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EQUIPMENT AND HARDWARE **DATA PROCESSING SET**

DATA PROCESSING SET AN/TYQ-36(V)3

- ECU, FL/WL, 18000 BTU - 1
- ENCRYPTION DEVICE, TSEC/KG-84 - 2
- SHELTER S250G, MODIFIED - 1
- COMMUNICATIONS PROTOCOL PROCESSOR - 1
- MULTIRATE MODEM - 2
- MICROVAX III - 2
- DISK DRIVE (DISK PACK) - 4
- OPTICAL DISK DRIVE - 2
- POWER DIST AND CONTROL ASSY - 1
- TELEPHONE, TA-838/TT- 1

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EQUIPMENT AND HARDWARE **ENCLAVE SETS**

- **AIRBORNE CORPS TSE SUPPORT PACKAGE**
- **AIRBORNE CORPS TCAE SUPPORT PACKAGE**
- **HEAVY CORPS TSE SUPPORT PACKAGE**
- **HEAVY CORPS TCAE SUPPORT PACKAGE**
- **LIGHT DIVISION TSE SUPPORT PACKAGE**
- **LIGHT DIVISION TCAE SUPPORT PACKAGE**
- **HEAVY DIVISION TSE SUPPORT PACKAGE**
- **HEAVY DIVISION TCAE SUPPORT PACKAGE**

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EQUIPMENT AND HARDWARE HEAVY DIVISION TSE SUPPORT PACKAGE

SUPPORT EQUIPMENT AN / TYQ-42(V)12

- **MSE DATA ADAPTER - 8**
- **DIST SYS ELECTRICAL 120/208 40A - 2**
- **TRANSFER KEY KYK-13/TSEC - 14**
- **DIST SYS ELECTRICAL M200A - 1**
- **TAPE READER KOI-18/TSEC - 1**
- **TRUCK SHELTER 5/4T, M1028 - 3**
- **GENERATOR, DIESEL, 30KW, AN/MJQ 10A - 1**
- **POWER SUPPLY, PP2953U - 1**
- **PRINTER ADP - 1**
- **SWITCHBOARD, SB3614 VB/TT - 1**
- **SECURE VOICE, TSEC KY-68 - 14**
- **TELEPHONE, TA838/TT - 6**
- **CONTACT TEST SET - 4**
- **TRUCK, CARGO, M925 (5 TON) - 2**

ASAS BLOCK 1 MPT ANALYSIS

EQUIPMENT CONFIGURATIONS

HEAVY

LIGHT

CORPS MI
OPS BN

CORPS MI
OPS BN (ABN)

DIVISION

DIVISION

TA&P
CO SPT CO

MI BN
HHS

OPS CO OPS CO

MI BN
HHS

DIV
HHC

ICAE TSE

ICAE TSE

ICAE TSE

ICAE TSE

TSE WCG

DPS

CCS

TCAE WCG
CLUSTER

TCAC

SPT PKG

6

2

1

2

2

1

6

2

1

2

2

1

6

2

1

2

2

1

6

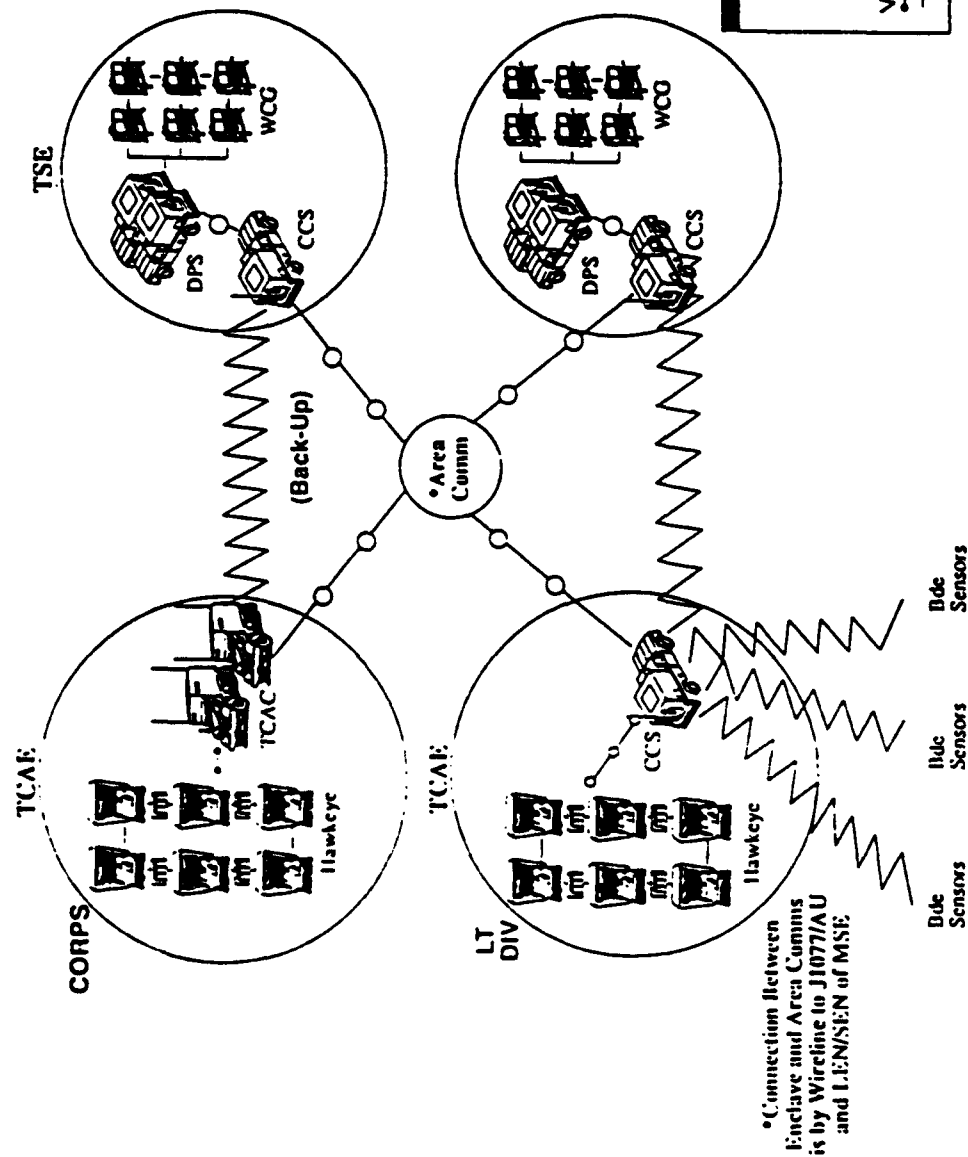
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1

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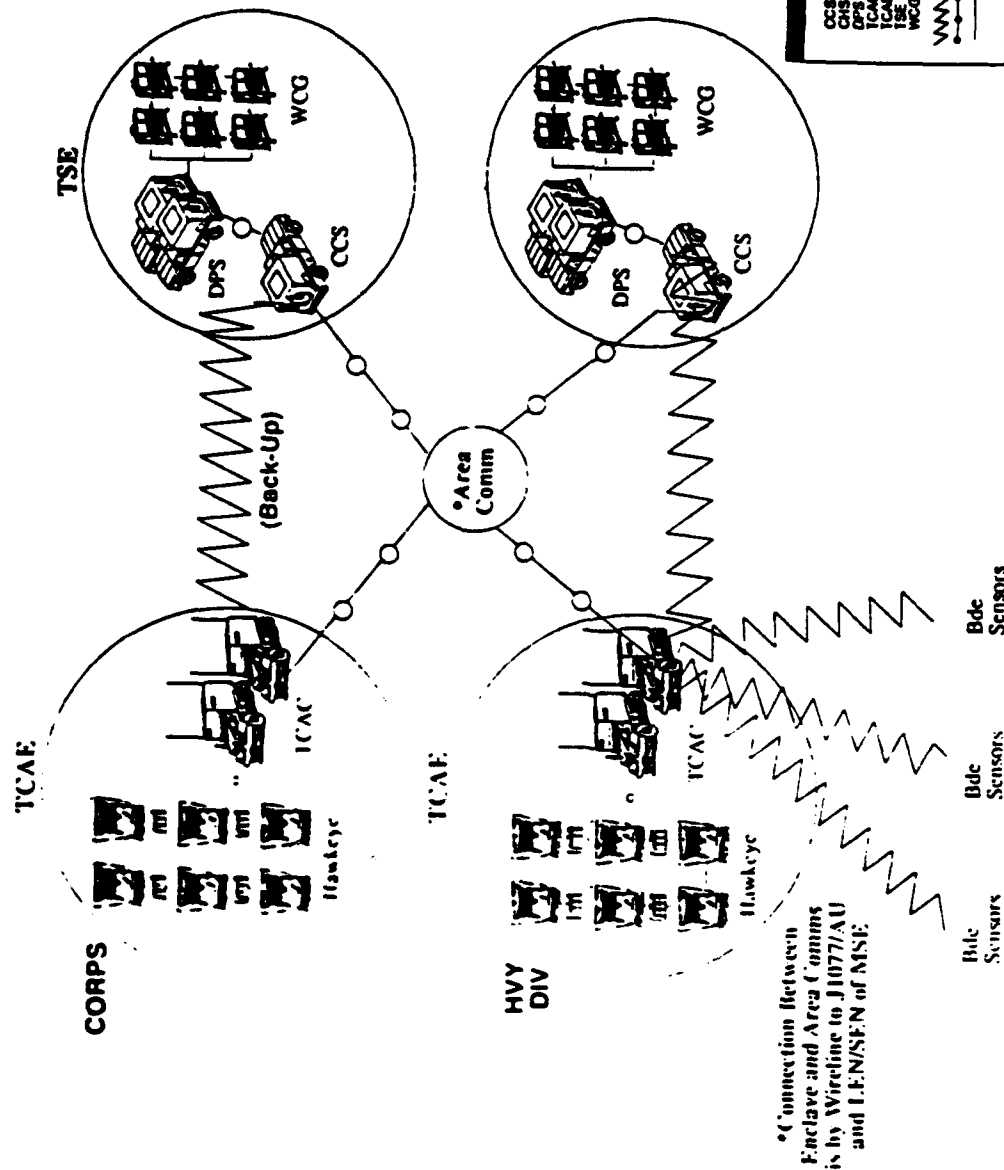
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BLOCK 1 (LIGHT) CONFIGURATION **FOR MANPRINT ANALYSIS**



ASAS BLOCK 1 MPT ANALYSIS

BLOCK 1 (HEAVY) CONFIGURATION FOR MANPRINT ANALYSIS



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SOFTWARE TSE SOFTWARE FUNCTIONAL IDENTITIES

- **ALL SOURCE ANALYSIS**
- **INTELLIGENCE COLLECTION MANAGEMENT**
 - **SITUATION ANALYSIS**
 - **TARGET ANALYSIS**
 - **MESSAGE RELEASE AUTHORITY**
 - **SYSTEM SUPERVISOR**
 - **FUNCTIONAL MANAGER**
- **COMMUNICATIONS PROCESSING (CCS)**

ASAS BLOCK 1 MPT ANALYSIS

SOFTWARE TCAE SOFTWARE FUNCTIONS

- **COLLECTION / ASSET MANAGEMENT**
- **COMINT PROCESSING AND ANALYSIS**
- **ELINT PROCESSING AND ANALYSIS**
- **TARGET VALUE ANALYSIS**
- **COMMUNICATIONS PROCESSING (TCAC/CCS)**

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SOFTWARE FUNCTIONALITY ASSUMPTIONS

- TSE PERFORMS ALL SOURCE PROCESSING, COLLECTION MANAGEMENT, SITUATION ANALYSIS AND TARGET DEVELOPMENT USING ASAS WITH VERSION 2.0.6G SOFTWARE RELEASE WITH MULTIPLE FUNCTIONAL IDENTITIES (SPV, FMR, MRA, SIT, ETC.).
- TCAE PERFORMS ASSET MANAGEMENT, COMINT, ELINT, AND COMINT/ELINT ANALYSIS USING TCAE WORKSTATION VERSION 2.1 SOFTWARE.

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MAINTENANCE CONCEPT (FY 94 -->)

- **HARDWARE**
 - **GOVERNMENT FURNISHED EQUIPMENT (GFE)**
 - **CONTRACTOR FURNISHED EQUIPMENT (CFE)**
- **SOFTWARE**
- **MANPOWER**
 - **MAINTENANCE MANPOWER CALCULATED FOR FY 94 AND BEYOND**

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MAINTENANCE CONCEPT **HARDWARE**

CONCEPT IAW ASAS ILS SUPPORT PLAN

- **GFE: NORMAL MAINTENANCE CHANNELS**
- **CFE: MAINTENANCE CHANNELS**
 - **TSE - UNIT AND DS MAINTENANCE (FY 94)**
 - **TCAE - TCAE W/S IS OPER (ORG), LCCS (DS & ABOVE)**
- **MI BN SUPPORTS TSE WITH 33T CONTACT TEAM**
- **MAINTENANCE WORKLOAD BASED ON MARC DATA (GFE) AND LSAR DATA (CFE)**

ASAS BLOCK 1 MPT ANALYSIS

MAINTENANCE CONCEPT HARDWARE SUPPORT

	GFE			CFE		
	ORG	DS	GS	ORG	DS	GS
WCG	NA	NA	NA	33T*	33T	NA
DPS	YES	YES	YES	33T*	33T	NA
CCS	YES	YES	YES	33T*	33T	NA
TSE SUPL EQMT	YES	YES	YES	33T*	33T	NA
TCAE W/S	NA	NA	NA	OPER	LCCS	LCCS
TCAC SHELTER	YES	YES	YES	LCCS	LCCS	LCCS
TCAE SUPL EQMT	YES	YES	YES	NA	NA	NA

* 33T SANITIZES BOARDS BEFORE RELEASE

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MAINTENANCE CONCEPT **SOFTWARE**

- ALL SOFTWARE IS CONTRACTOR SUPPORTED AT UNIT AND MAINTAINED BY LCSEC.

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FIELDING CONCEPT* ASSUMPTIONS

- 2 - HEAVY CORPS
 - (MI OPERATIONS BN, TOE 34405L)
- 1 - ABN CORPS
 - (MI BRIGADE, OPERATIONS BN, TOE 34305L)
- 5 - HEAVY DIVISIONS
 - (MI BATTALION, TOE 34285L)
 - (HQ & HQ CO, TOE 87004L100)
- 3 - LIGHT DIVISIONS
 - (MI BATTALION, TOE 34295L)
 - (HQ & HQ CO, TOE 77004L100)
- OPERATING TEMPO: 20.7 HOURS PER DAY / 7555.5 HRS/YR
- OPERATOR WORKDAY: 12 HOUR SHIFT

* FIELDING TO THE SCHOOL IS EXCLUDED FROM THIS STUDY

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MANPOWER ANALYSIS

- OPERATOR MANPOWER
- SUPERVISOR MANPOWER
- MAINTENANCE MANPOWER
- FORCE LEVEL SUMMARY

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OPERATOR MANPOWER

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KEY OPERATOR MANPOWER ASSUMPTIONS

- OPERATORS WILL WORK 12 HOUR SHIFTS
- OPERATOR MOS & GRADES WITHIN TOE CONSTRAINTS
- PRIMARY CCS OPERATOR = 98C
- PRIMARY ICM OPERATOR = 96D

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WORKSTATION ALLOCATION ASSUMPTIONS

- **WORKSTATION ALLOCATION BASED ON:
 - **MISSIONS AND FUNCTIONS OF TOE SECTIONS.**
 - **ASSUMED WORKLOAD BY FI.**
 - **COORDINATION BETWEEN PMO, PMASAS AND PMCAC, AND INTEL CENTER - CD.****
- **FUNCTIONAL ALLOCATIONS WILL SHIFT OVER TIME WITH CHANGES IN WORKLOAD.**

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WORKSTATION ALLOCATION ASSUMPTIONS CON'T

<u>FUNCTION</u>	<u>WORKSTATIONS</u>	
	TSE	TCAE
ALL SOURCE	2	
SITUATION	1	
TARGET	1	
COLL MGT	1	
FMR/SPV/MRA	1	
ASSET MGT		1
COMINT		3
ELINT		1
MRA/MGR		1

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MANPOWER CLAIMANTS CORPS LEVEL MAJOR UNIT TYPES

AIRBORNE CORPS

- OPERATIONS COMPANY, OPERATIONS BATTALION, MI BRIGADE (AIRBORNE) - TOE 34307L
 - .. TSE - CTOC SUPPORT ELEMENT
 - .. TCAE - TECHNICAL CONTROL AND ANALYSIS ELEMENT

HEAVY CORPS

- TSE - CTOC SUPPORT COMPANY, MI BATTALION (OPERATIONS) (CORPS) (TOE 34407L) - CTOC SUPPORT ELEMENT
- TCAE - TECHNICAL ANALYSIS AND PROCESSING COMPANY, MI BATTALION (OPERATIONS) (CORPS) (TOE 34408L) - TECHNICAL ANALYSIS ELEM OPS SECTION

ASAS BLOCK 1 MPT ANALYSIS

MANPOWER CLAIMANTS **DIVISION LEVEL MAJOR UNIT TYPES**

LIGHT DIVISION

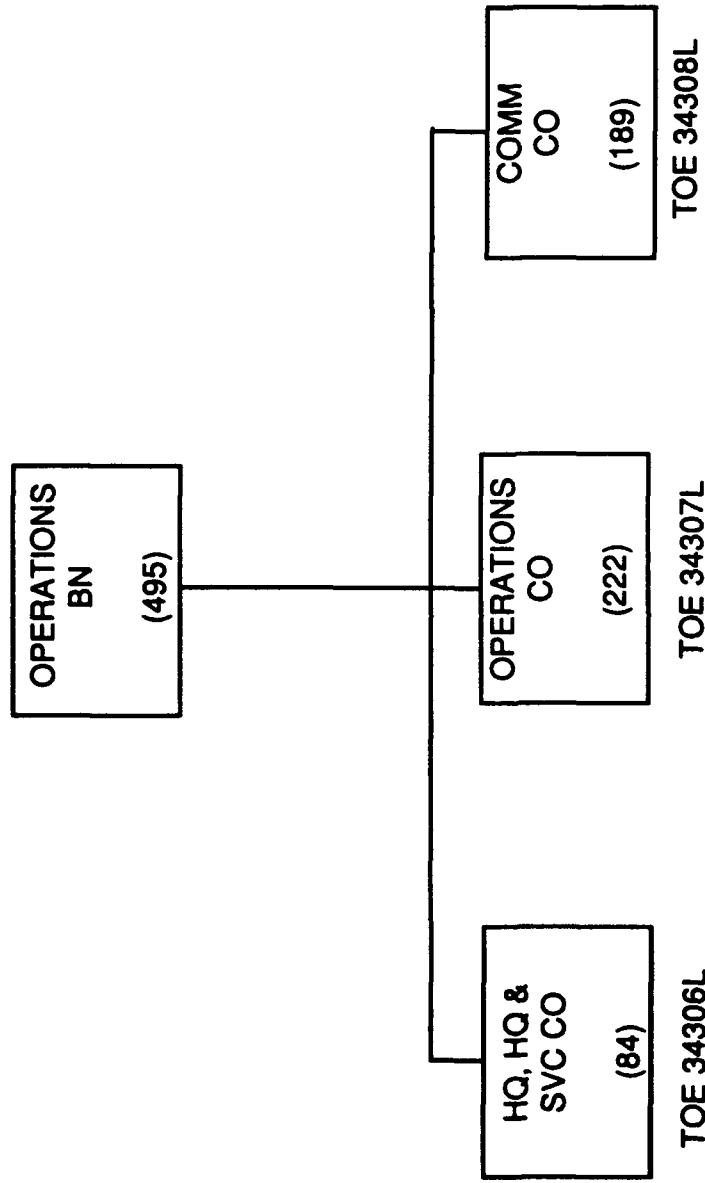
- TSE - HHC, LIGHT DIVISION (TOE 77004L) - DTOC
SUPPORT PLATOON
- TCAE - HH&S COMPANY, MI BATTALION, LIGHT
DIVISION (TOE 34296L) - TCAE HQ SECTION

HEAVY DIVISION

- TSE - HHC, HEAVY DIVISION (TOE 87004L) - DTOC
SUPPORT ELEMENT
- TCAE - HH&S COMPANY, MI BATTALION, HEAVY
DIVISION TOE (34286L) - TCAE HQ SECTION

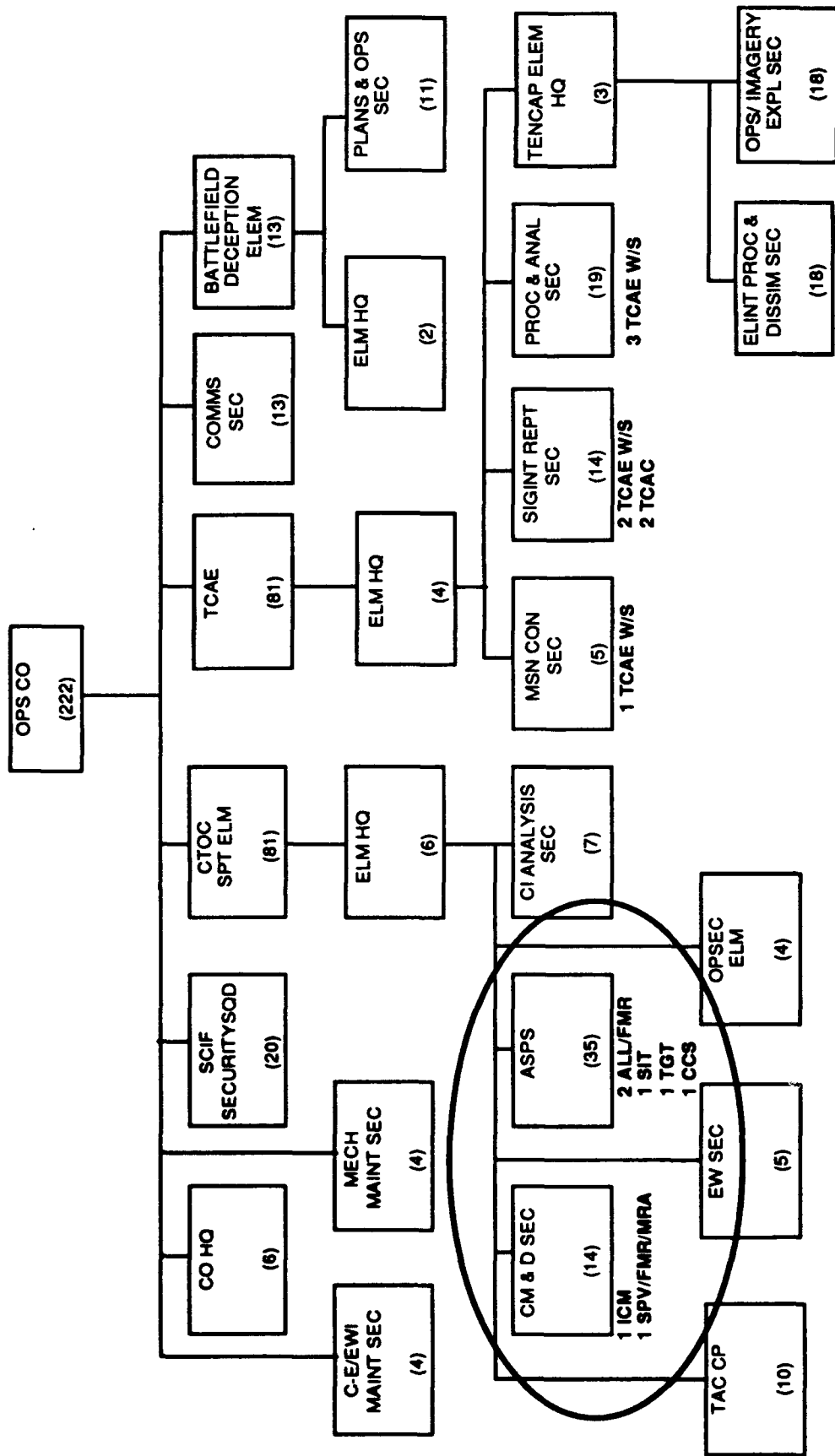
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OPERATIONS BATTALION, MI BRIGADE (ABN) TOE 34305L



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OPERATIONS COMPANY, OPERATIONS BATTALION, MI BDE (ABN) CTOC SUPPORT ELEMENT TOE 34307L



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TOE LEGEND

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS	ASAS EQUIPMENT OPERATORS BY TYPE EQUIPMENT/FUNCTION	
OFF LINE TECHNICAL SUPERVISION	TOE MANPOWER E6 AND ABOVE, MINUS ASAS OPERATORS	
OFF LINE ANALYTICAL SUPPORT	TOE MANPOWER E5 AND BELOW, MINUS ASAS OPERATORS	
OFF LINE ADMIN SUPPORT	NON MI ADMIN SUPPORT PERSONNEL	

REFLECTS
ALL TOE
AUTHORIZED
MANPOWER
BY MOS
AND GRADE

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CORPS TSE (ABN), CTCOC SPT ELEMENT HQ,
TOE - 34307L (6)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS	PRIMARY OPERATORS	PRIMARY OPERATORS
OFF LINE TECHNICAL SUPERVISION	35D (LTC) • / • • MISSION SUPV 98Z50	35D (CPT) • • / MISSION SUPV 96B50
OFF LINE ANALYTICAL SUPPORT		
OFF LINE ADMIN SUPPORT	71L10(E4)	71L10(E4)

OIC • • • SHIFT LEADER • • •

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CORPS TSE (ABN), COLLECTION MANAGEMENT & DISSEMINATION SECTION,
TOE - 34307L (14)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 SPV/FMR/MRA 1 ICM	PRIMARY OPERATORS 35C (CPT) 96B20	PRIMARY OPERATORS 352C(W2) 96D30
OFF LINE TECHNICAL SUPERVISION	35D (MAJ) •/•• 35G (CPT) 96B50 97B30	35D (MAJ) •• 35D (CPT) 351B(W2)
OFF LINE ANALYTICAL SUPPORT	98C20	97B20 98C10(E4)
OFF LINE ADMIN SUPPORT		

OIC ••• SHIFT LEADER •••

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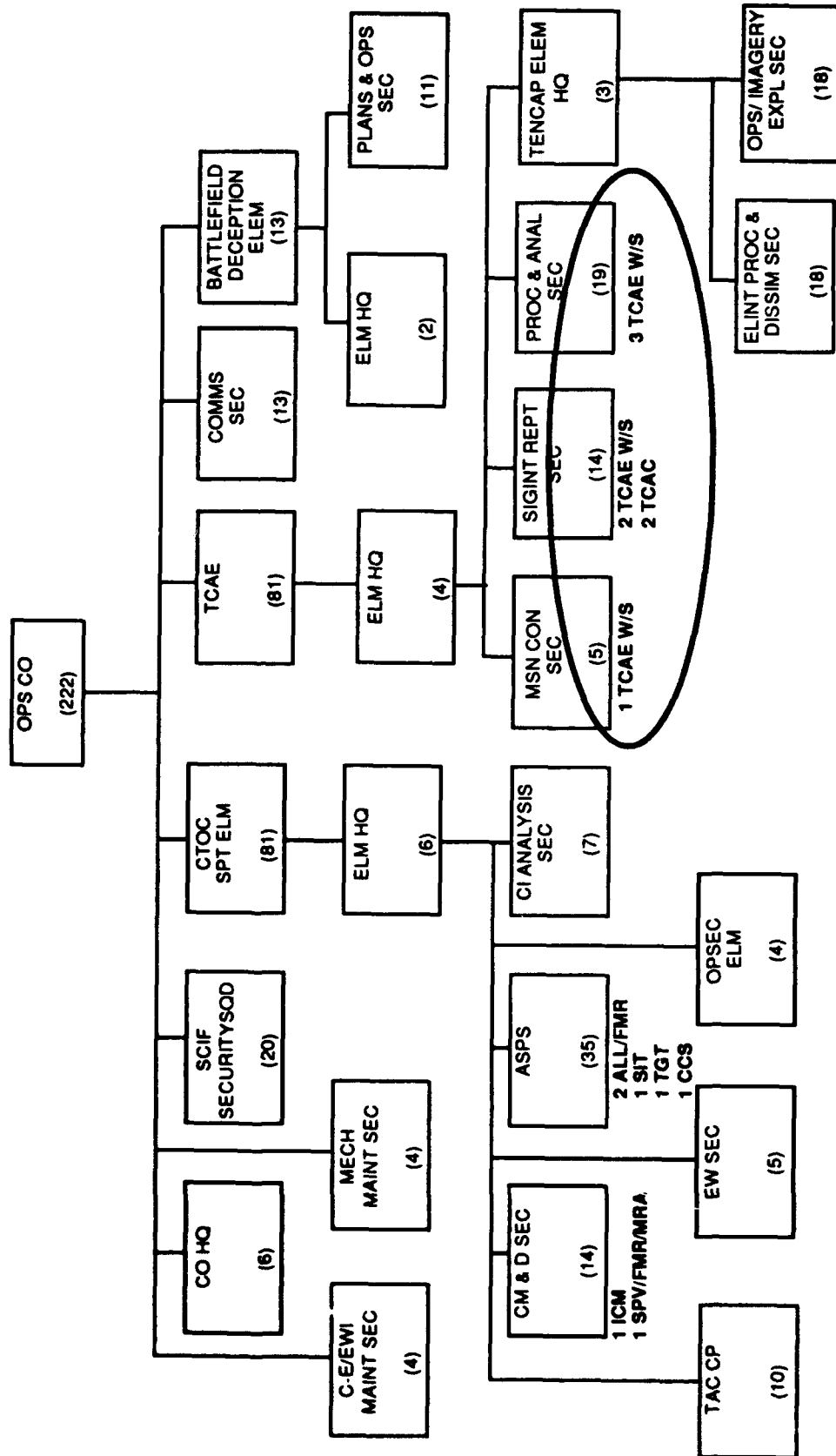
CORPS TSE (ABN), ALL SOURCE PRODUCTION SECTION,
TOE - 34307L (35)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS ALL/FMR ALL/FMR SIT TGT CCS	PRIMARY OPERATORS 350B(W2) 96B40 350B(W2) 96B20 98C20	PRIMARY OPERATORS 350B(W2) 96B30 350B(W2) 96B20 98C20
OFF LINE TECHNICAL SUPERVISION	35D (MAJ) •/•• 35C (CPT) 35D (CPT) 350B(W2) 352C(W2) 350B(W2)	35D (CPT) •• 35D (CPT) 350B(W2) 350B(W2) 352C(W2) 98C40
OFF LINE ANALYTICAL SUPPORT	96D20 98C10(E4) 96B10(E4) 96D10 96B10 96B10 96B10	96D20 98C10(E4) 96B10(E4) 96B10(E4) 98C10 96B10
OFF LINE ADMIN SUPPORT		

OIC - • • • SHIFT LEADER - • • •

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OPERATIONS COMPANY, OPERATIONS BATTALION, MI BDE (ABN) TECHNICAL CONTROL AND ANALYSIS ELEMENT TOE 34307L



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CORPS TCAE (ABN), TCAE ELEMENT HQ,
TOE - 34307L (4)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS	PRIMARY OPERATORS	PRIMARY OPERATORS
OFF LINE TECHNICAL SUPERVISION	35G (MAJ) MISSION SUPV / •	98Z50
OFF LINE ANALYTICAL SUPPORT		
OFF LINE ADMIN SUPPORT	71L10(E4)	71L10(E4)

OIC - •

SHIFT LEADER - ••

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CORPS TCAE (ABN), MISSION CONTROL SECTION,
TOE - 34307L (5)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 TCAE W/S	PRIMARY OPERATORS 352G • / • •	PRIMARY OPERATORS 98C20
OFF LINE TECHNICAL SUPERVISION		352H MISSION SUPV / • •
OFF LINE ANALYTICAL SUPPORT	98H20	98C10(E4)
OFF LINE ADMIN SUPPORT		

OIC - •

SHIFT LEADER - • • •

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CORPS TCAE (ABN), SIGINT REPORTING SECTION,
TOE - 34307L (14)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 TCAE W/S 2 TCAE W/S 1 TCAC 2 TCAC	PRIMARY OPERATORS 352C(W2) •/•• 98C3L 98C20 98C10(E4) 98C20 98C10(E4)	PRIMARY OPERATORS 98C3L •• 98C20 98C20 98C10(E4) 98C10(E4) 98C10
OFF LINE TECHNICAL SUPERVISION		
OFF LINE ANALYTICAL SUPPORT	98C10	98C10
OFF LINE ADMIN SUPPORT		

OIC - •

SHIFT LEADER - ••

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CORPS TCAE (ABN), PROCESSING & ANALYSIS SECTION,
TOE - 34307L (19)

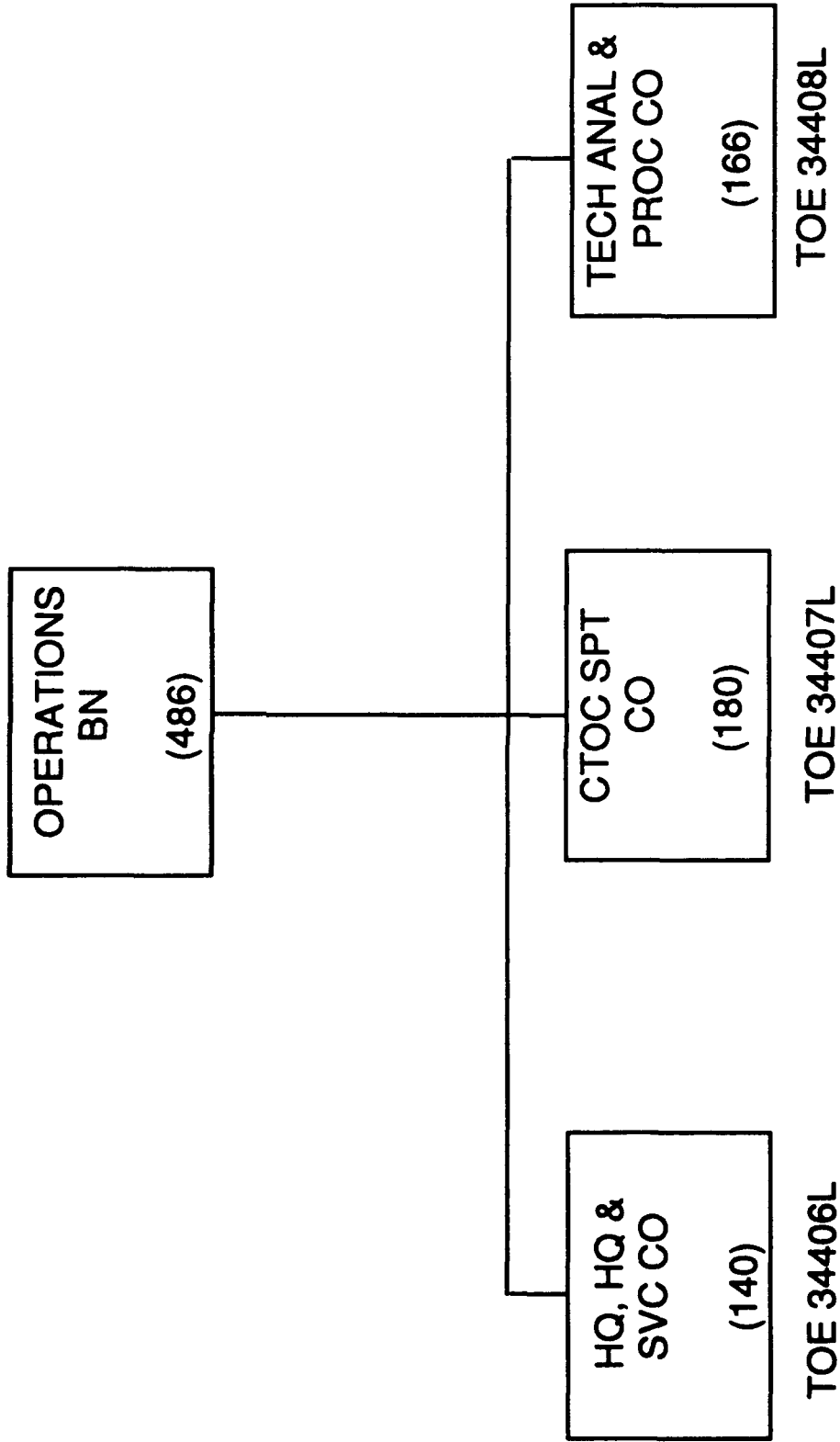
DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 TCAE W/S 2 TCAE W/S 3 TCAE W/S	PRIMARY OPERATORS 352C(W2) •/•• 98C30 98C20	PRIMARY OPERATORS 352C(W2) •• 98C20 98C20
OFF LINE TECHNICAL SUPERVISION	98C40 98G3L	98G3L
OFF LINE ANALYTICAL SUPPORT	98C10(E4) 98C10 98G1L(E4) 98G2L 98G1L(E4)	98C20 98C10(E4) 98G2L 98G1L(E4) 98C10
OFF LINE ADMIN SUPPORT		

OIC - •

SHIFT LEADER - ••

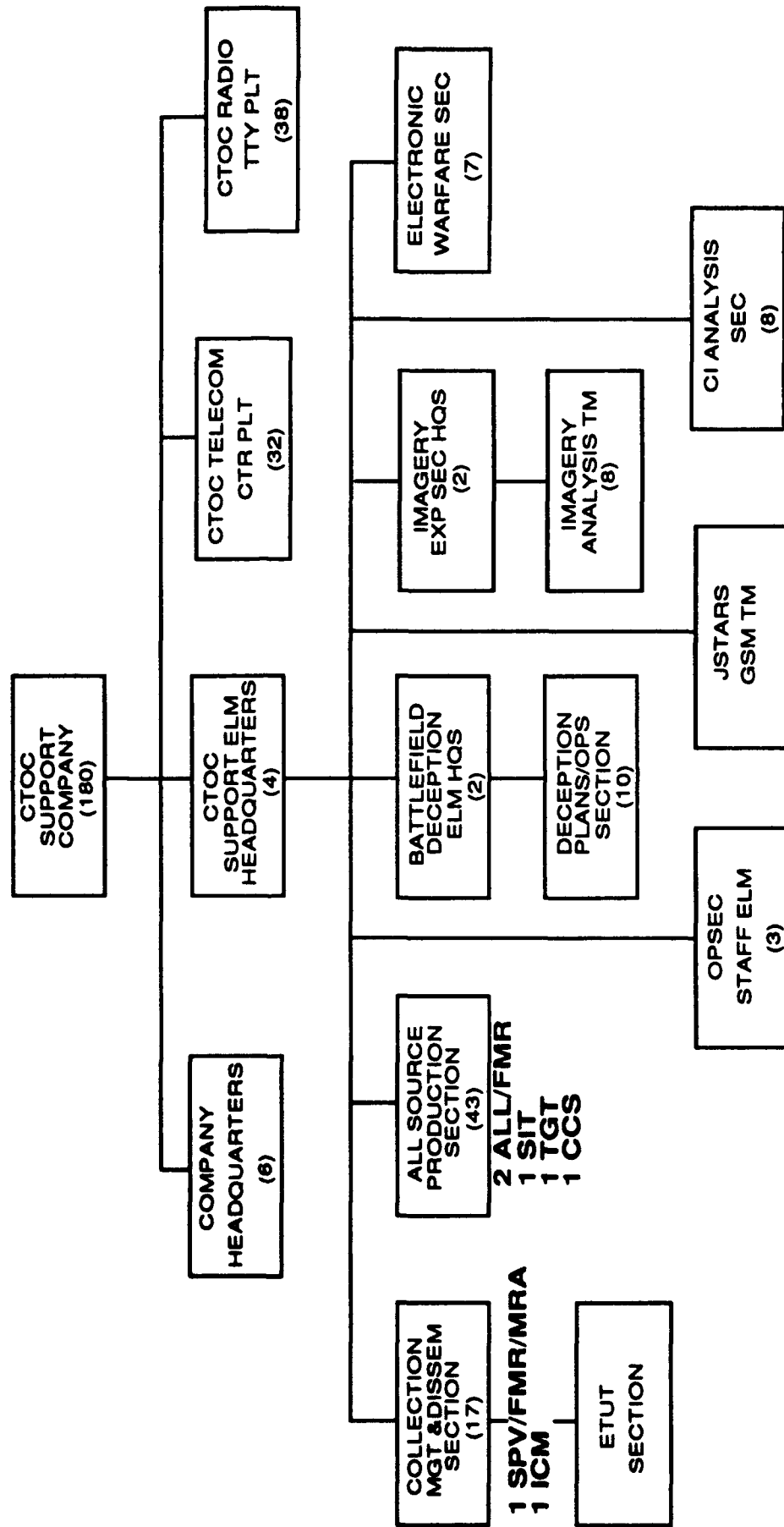
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CORPS MI BATTALION (OPERATIONS) (TOE 34405L)



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CTOC SUPPORT COMPANY, MI BATTALION (OPERATIONS) (CORPS) TOE 34407L



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MI BN (OPNS) (CORPS), CTCOC SPT CO,
CTOC SUPPORT ELEMENT HQ - TOE 34407L (4)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS	PRIMARY OPERATORS	PRIMARY OPERATORS
OFF LINE TECHNICAL SUPERVISION	35D (LTC) • / • • & MISSION SUPV 98Z50	35G (MAJ) MISSION SUPV
OFF LINE ANALYTICAL SUPPORT	96B10	
OFF LINE ADMIN SUPPORT		

OIC - •

SHIFT LEADER - • •

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MI BN (OPNS) (CORPS), CTOC SPT CO,
COLLECTION MANAGEMENT & DISSEMINATION SECTION - TOE 34407L (17)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS SPV/FMR/MRA ICM	PRIMARY OPERATORS 35G (CPT) 96D30	PRIMARY OPERATORS 98C40 96D20
OFF LINE TECHNICAL SUPERVISION	35D (MAJ) •/•• 35C (CPT) 35G (CPT) 96B50 98J40	35D (CPT) •• 35C (CPT) 35G (CPT) 96B30
OFF LINE ANALYTICAL SUPPORT		98C2L
OFF LINE ADMIN SUPPORT	71L20 25Q10	71L10(E4)

OIC • •

SHIFT LEADER • • •

ASAS BLOCK 1 MPT ANALYSIS

MI BN (OPNS) (CORPS), CTC SPT CO,
ALL SOURCE PRODUCTION SECTION - TOE 34407L (43)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS ALL/FMR ALL/FMR SIT TGT CCS	PRIMARY OPERATORS 350B(W2) 96B30 350B(W2) 96B20 98C2L	PRIMARY OPERATORS 350B(W2) 96B30 350B(W2) 96B20 98C10(E4)
OFF LINE TECHNICAL SUPERVISION	35D (MAJ) •/•• 35B (CPT) 35E (CPT) 35G (CPT) 352C(W4) 352J(W4) 350B(W2) 98C3L	35G (CPT) •• 35D (CPT) 35D (CPT) 352C(W4) 352J(W4) 350B(W2) 350B(W2) 350B(W2) 98J30
OFF LINE ANALYTICAL SUPPORT	98J20 96B10(E4) 96B10(E4) 96B10(E4) 98J10(E4) 96B10 96B10 96B10	96B10(E4) 96B10(E4) 98C10(E4) 98J10(E4) 96B10 96B10
OFF LINE ADMIN SUPPORT	71L10(E4)	71L10(E4)

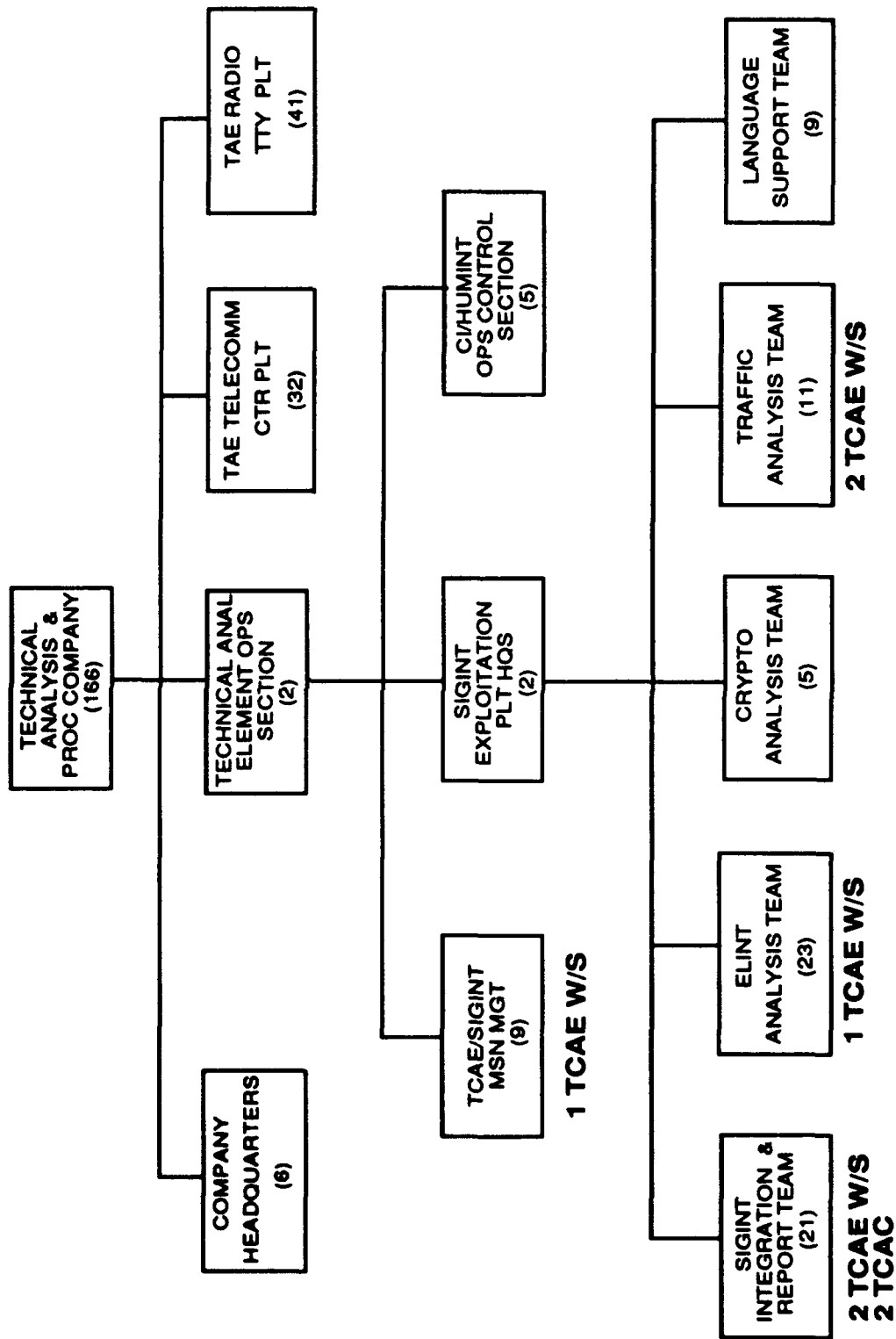
OIC - •

SHIFT LEADER - ••

ASAS BLOCK 1 MPT ANALYSIS

TECHNICAL ANALYSIS & PROCESSING CO. MI BATTALION (OPERATIONS) (CORPS)

TOE 34408L



ASAS BLOCK 1 MPT ANALYSIS

MI BN (OPNS) (CORPS), TECHNICAL ANALYSIS & PROCESSING CO,
TECHNICAL ANALYSIS ELEMENT OPS SECTION - TOE 34408L (2)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS	PRIMARY OPERATORS	PRIMARY OPERATORS
OFF LINE TECHNICAL SUPERVISION	35D (CPT) • / • • & MISSION SUPV 98Z50	
OFF LINE ANALYTICAL SUPPORT		
OFF LINE ADMIN SUPPORT		

OIC • •

SHIFT LEADER • • •

ASAS BLOCK 1 MPT ANALYSIS

MI BN (OPNS) (CORPS), TECHNICAL ANALYSIS & PROCESSING CO,
TCAE/SIGINT MISSION MANAGEMENT - TOE 34408L (9)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 TCAE W/S	PRIMARY OPERATORS 352C(W4) ••	PRIMARY OPERATORS 352G(W4)
OFF LINE TECHNICAL SUPERVISION	98C40	35D (CPT) •/•• & MISSION SUPV
OFF LINE ANALYTICAL SUPPORT	98C2L 98C10(E4)	98J20 98C10(E4)
OFF LINE ADMIN SUPPORT	71L10(E4)	

OIC - ••

SHIFT LEADER - ••

ASAS BLOCK 1 MPT ANALYSIS

MI BN (OPNS) (CORPS), TECHNICAL ANALYSIS & PROCESSING CO,
SIGINT INTEGRATION & REPORT TEAM - TOE 34408L (21)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 TCAE W/S 2 TCAE W/S 1 TCAO 2 TCAO	PRIMARY OPERATORS 98C3L 98J20 98C2L 98C1L(E4) 98C1L(E4) 98J10(E4)	PRIMARY OPERATORS 98C3L 98C2L 98C2L 98C1L(E4) 98C1L(E4) 98C10
OFF LINE TECHNICAL SUPERVISION	352C(W4) •/••	98C4L ••
OFF LINE ANALYTICAL SUPPORT	96B20 98J10(E4) 98J10	96B10(E4) 98J10(E4)
OFF LINE ADMIN SUPPORT	71L10(E4)	71L10(E4)

OIC - ••

SHIFT LEADER - ••

ASAS BLOCK 1 MPT ANALYSIS

MI BN (OPNS) (CORPS), TECHNICAL ANALYSIS & PROCESSING CO,
TRAFFIC ANALYSIS TEAM - TOE 34408L (11)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 TCAE W/S 2 TCAE W/S	PRIMARY OPERATORS 98C2L 98C10(E4)	PRIMARY OPERATORS 98C2L 98C10(E4)
OFF LINE TECHNICAL SUPERVISION	352C(W4) •/••	98C3L ••
OFF LINE ANALYTICAL SUPPORT	98C2L 98C10(E4)	98C10(E4) 98C10
OFF LINE ADMIN SUPPORT	71L10	

OIC •• SHIFT LEADER •••

ASAS BLOCK 1 MPT ANALYSIS

MI BN (OPNS) (CORPS), TECHNICAL ANALYSIS & PROCESSING CO,
ELINT ANALYSIS TEAM - TOE 34408L (23)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 TCAE W/S	PRIMARY OPERATORS 98J20	PRIMARY OPERATORS 98J20
OFF LINE TECHNICAL SUPERVISION	352J(W4) •/•• 98J40	352J(W4) •• 98J30
OFF LINE ANALYTICAL SUPPORT	96D20 98C20 96D10(E4) 98C10(E4) 98J10(E4) 98J10(E4) 98J10(E4) 98J10	96B20 96B10(E4) 96D10(E4) 98C10(E4) 98J10(E4) 98J10(E4) 96D10 98J10
OFF LINE ADMIN SUPPORT		

OIC • •

SHIFT LEADER • • •

HQ & HQ COMPANY, LIGHT DIVISION
TOE 77004L



ASAS BLOCK 1 MPT ANALYSIS

LIGHT DIVISION TSE, DTOC SUPPORT PLATOON HEADQUARTERS,
TOE - 77004L (2)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS	PRIMARY OPERATORS	PRIMARY OPERATORS
OFF LINE TECHNICAL SUPERVISION	35A (CPT) • / •• MISSION SUPV	98J40
OFF LINE ANALYTICAL SUPPORT		
OFF LINE ADMIN SUPPORT		

OIC - •

SHIFT LEADER - ••

ASAS BLOCK 1 MPT ANALYSIS

LIGHT DIVISION TSE, DTOC CM&D SECTION,
TOE - 77004L (6)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 ICM 1 SPV/FMR/MRA	PRIMARY OPERATORS 96D40 35C(CPT) • / • •	PRIMARY OPERATORS 96B20 352C(W4) • •
OFF LINE TECHNICAL SUPERVISION	96R40	
OFF LINE ANALYTICAL SUPPORT		96B10(E4)
OFF LINE ADMIN SUPPORT		

OIC - •

SHIFT LEADER - • •

ASAS BLOCK 1 MPT ANALYSIS

LIGHT DIVISION TSE, DTOC ALL SOURCE INTELLIGENCE SECTION,
TOE - 77004L (12)

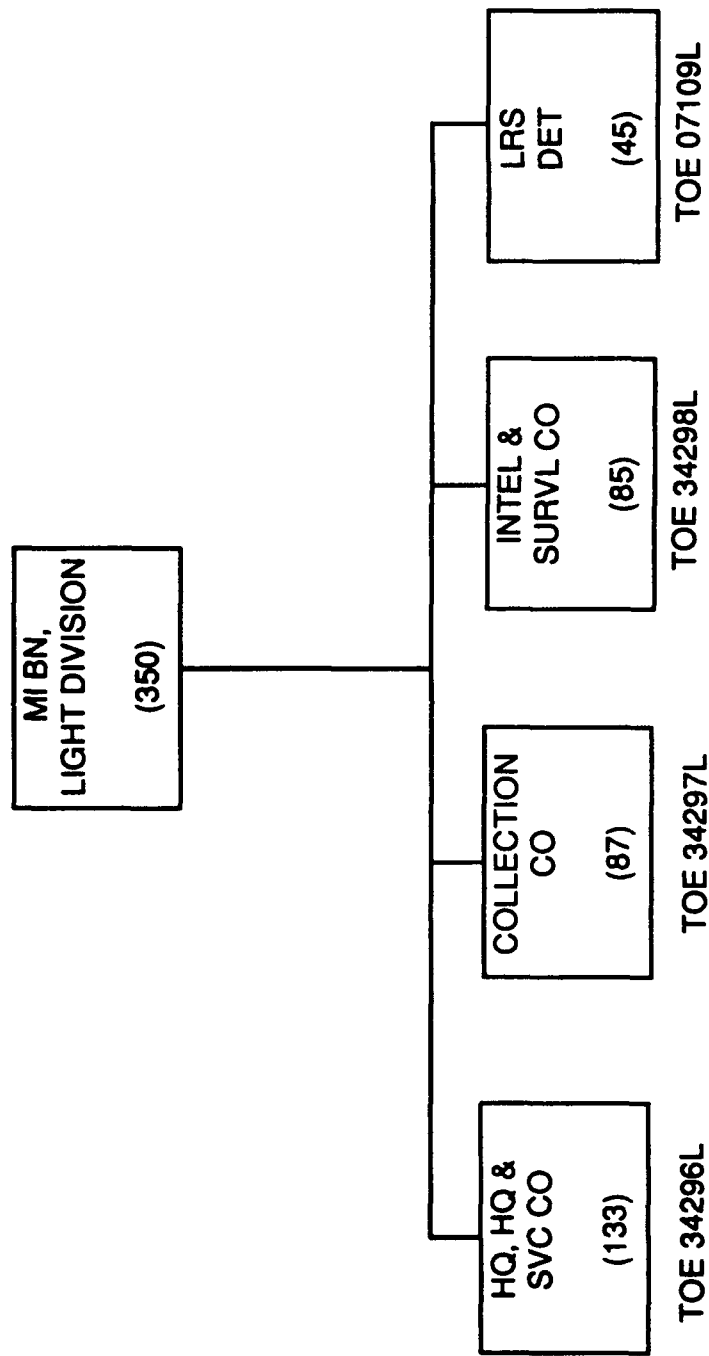
DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 ALL/FMR 2 ALL/FMR 1 SIT 1 TGT 1 CCS	PRIMARY OPERATORS 35G (CPT) • / •• 98C30 350B(W4) 96B30 98C30	PRIMARY OPERATORS 96B20 96B10(E4) 352C(W4) 96B30 98C20
OFF LINE TECHNICAL SUPERVISION		35D(CPT) MISSION SUPV ••
OFF LINE ANALYTICAL SUPPORT	96B10	
OFF LINE ADMIN SUPPORT		

OIC •• SHIFT LEADER •••

ASAS BLOCK 1 MPT ANALYSIS

MI BATTALION, LIGHT DIVISION

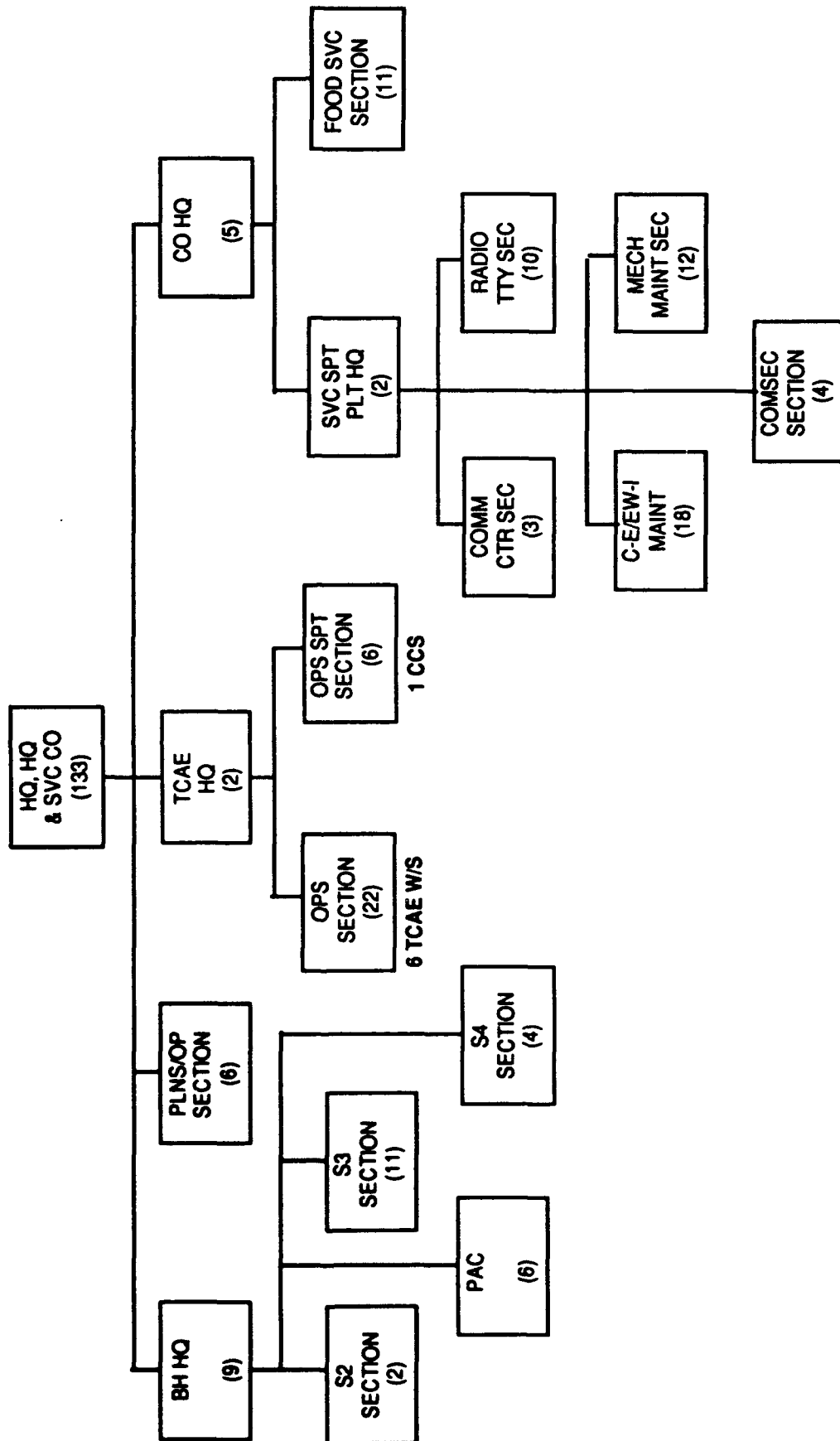
TOE 34295L



ASAS BLOCK 1 MPT ANALYSIS

HQ, HQ & SVC CO, MI BATTALION, LIGHT DIVISION

TOE 34296L



ASAS BLOCK 1 MPT ANALYSIS

LIGHT DIVISION TCAE, TCAE HEADQUARTERS,
TOE - 34296L (2)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS	PRIMARY OPERATORS	PRIMARY OPERATORS
OFF LINE TECHNICAL SUPERVISION	3SG(CPT) • / • • MISSION SUPV 98Z50	
OFF LINE ANALYTICAL SUPPORT		
OFF LINE ADMIN SUPPORT		

OIC - •

SHIFT LEADER - • •

ASAS BLOCK 1 MPT ANALYSIS

LIGHT DIVISION TCAE, OPERATIONS SECTION,
TOE - 34296L (22)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS	PRIMARY OPERATORS	PRIMARY OPERATORS
1 TCAE W/S	352J(W2) • / ••	352C(W2) ••
2 TCAE W/S	98J30	98J20
3 TCAE W/S	96B10(E4)	98C10(E4)
4 TCAE W/S	98C3L	96B20
5 TCAE W/S	98C2L	98C10(E4)
6 TCAE W/S	98C2L	98J10(E4)
OFF LINE TECHNICAL SUPERVISION	352G(W2)	98G4L
OFF LINE ANALYTICAL SUPPORT	98G2L 98C10 98C10	98G2L 98G1L(E4) 98C10(E4) 98C10
OFF LINE ADMIN SUPPORT	71L10(E4)	

OIC ••

SHIFT LEADER •••

ASAS BLOCK 1 MPT ANALYSIS

LIGHT DIVISION TCAE, OPERATIONS SUPPORT SECTION,
TOE - 34296L (6)

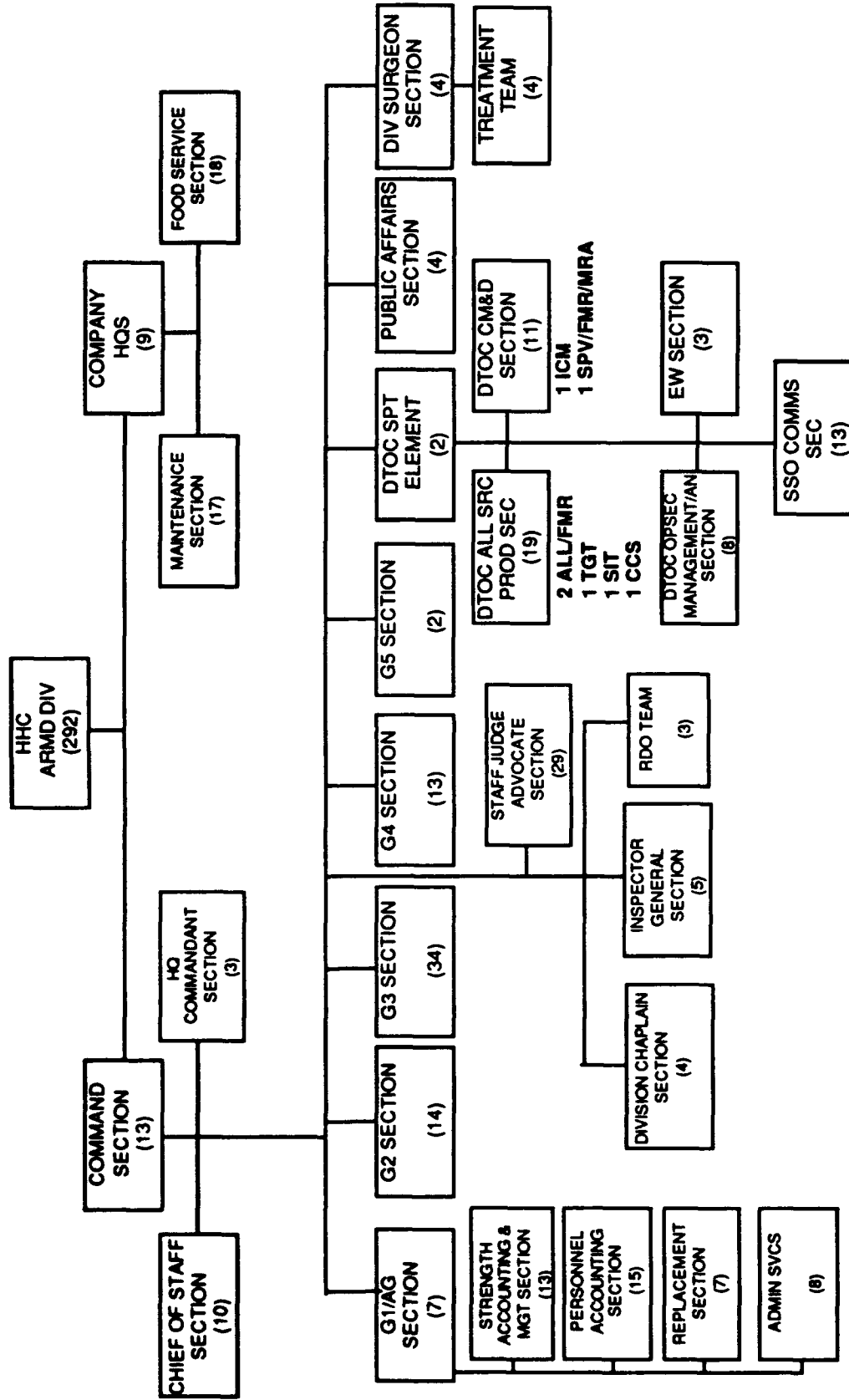
DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 CCS	PRIMARY OPERATORS 98C20	PRIMARY OPERATORS 98C10(E4)
OFF LINE TECHNICAL SUPERVISION	98C30 ••	352C(W2) •/•• MISSION SUPV
OFF LINE ANALYTICAL SUPPORT	98C10	98C10
OFF LINE ADMIN SUPPORT		

OIC - •

SHIFT LEADER - ••

ASAS BLOCK 1 MPT ANALYSIS

HQ & HQ CO, HEAVY DIVISION TOE 87004L100



ASAS BLOCK 1 MPT ANALYSIS

HEAVY DIVISION TSE, DTOC SUPPORT ELEMENT,
TOE - 87004L (2)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS	PRIMARY OPERATORS	PRIMARY OPERATORS
OFF LINE TECHNICAL SUPERVISION	35D (MAJ) • / • • MISSION SUPV 96B40	
OFF LINE ANALYTICAL SUPPORT		
OFF LINE ADMIN SUPPORT		

OIC - •

SHIFT LEADER - • •

ASAS BLOCK 1 MPT ANALYSIS

HEAVY DIVISION TSE, DTOC COLLECTION MANAGEMENT & DISSEMINATION SECTION,
TOE - 87004L (11)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 SVP/FMR/MRA 1 ICM	PRIMARY OPERATORS 352C(W4) 96D40	PRIMARY OPERATORS 98J40 96B20
OFF LINE TECHNICAL SUPERVISION	35G (CPT) • / •• 96R40	35C (CPT) •• (MISSION SUPV)
OFF LINE ANALYTICAL SUPPORT	96B10(E4)	96B10
OFF LINE ADMIN SUPPORT	71L10(E4)	71L10(E4)

OIC - •

SHIFT LEADER - ••

ASAS BLOCK 1 MPT ANALYSIS

HEAVY DIVISION TSE, DTOC ALL SOURCE PRODUCTION SECTION,
TOE - 87004L (19)

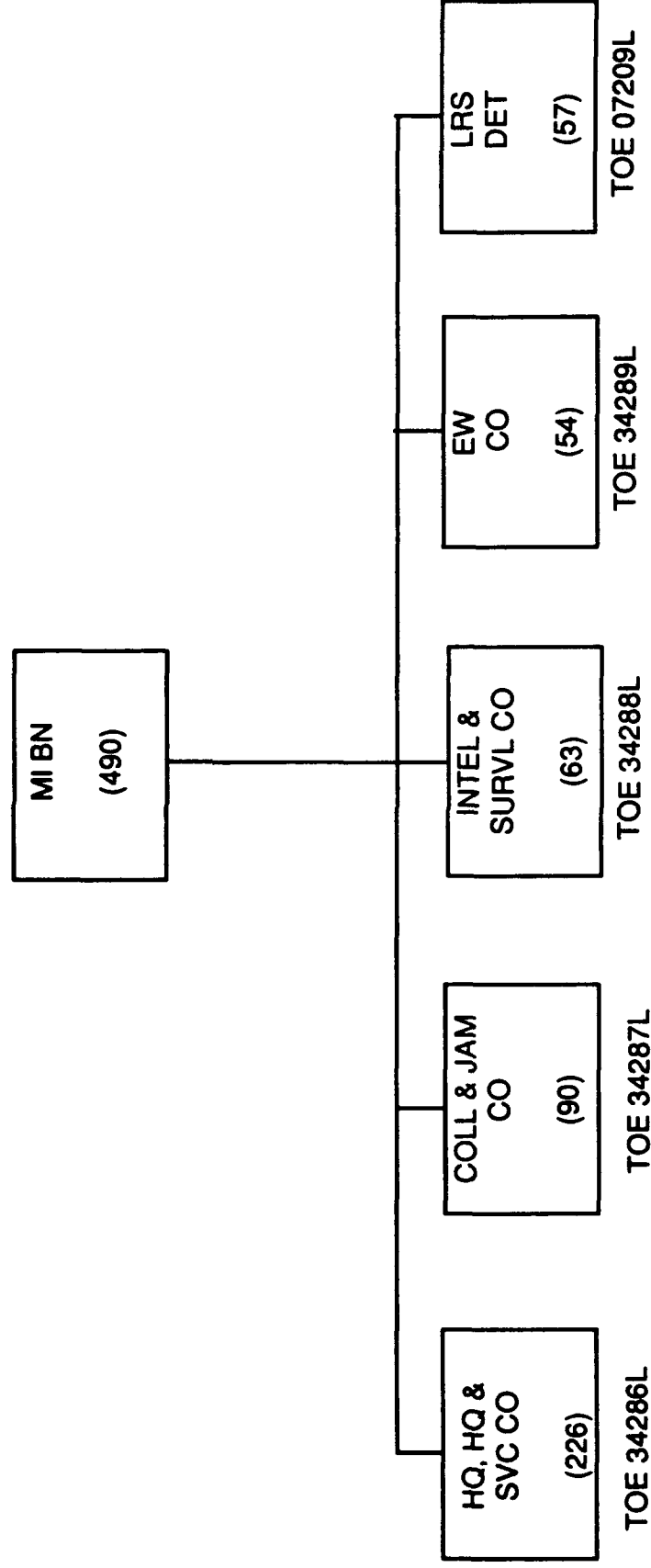
DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 ALL/FMR 1 ALL/FMR SIT TGT CCS	PRIMARY OPERATORS 352C(W4) 96B30 350B(W4) 96B40 98C20	PRIMARY OPERATORS 352J(W2) 96B20 350B(W4) 96B10(E4) 98C10
OFF LINE TECHNICAL SUPERVISION	35G (CPT) • / • • 35A (LT)	35D (CPT) • • 35A (LT) 98J40
OFF LINE ANALYTICAL SUPPORT	96B10(E4) 96B10	98C10(E4) 96B10
OFF LINE ADMIN SUPPORT		

OIC - •

SHIFT LEADER - • •

ASAS BLOCK 1 MPT ANALYSIS

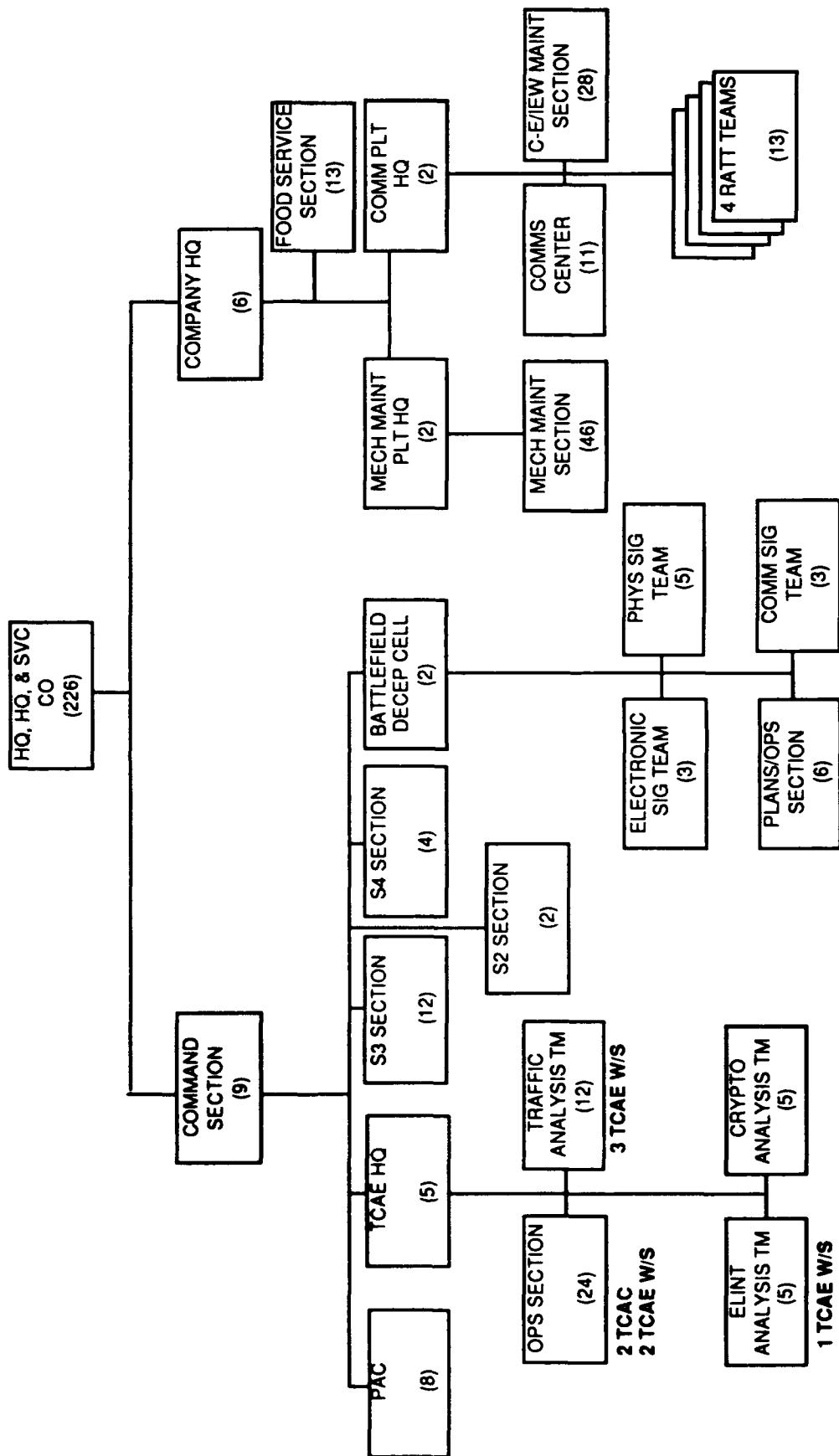
MI BATTALION, HEAVY DIVISION TOE 34285L



ASAS BLOCK 1 MPT ANALYSIS

HQ, HQ & SVC CO, MI BATTALION (HEAVY)

TOE 34286L



ASAS BLOCK 1 MPT ANALYSIS

HEAVY DIVISION TCAE, TCAE HEADQUARTERS,
TOE - 34286L (5)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS	PRIMARY OPERATORS	PRIMARY OPERATORS
OFF LINE TECHNICAL SUPERVISION	35G (MAJ) • / • • MISSION SUPV 98Z50	
OFF LINE ANALYTICAL SUPPORT		
OFF LINE ADMIN SUPPORT	71L10(E4) 71L10(E4)	71L10(E4)

OIC - • • • SHIFT LEADER - • • •

ASAS BLOCK 1 MPT ANALYSIS

HEAVY DIVISION TCAE, OPERATIONS SECTION,
TOE - 34286L (24)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 TCAE W/S 2 TCAE W/S 1 TCAO 2 TCAO	PRIMARY OPERATORS 98C40 98C30 98C20 98C10 98C20 98J10(E4)	PRIMARY OPERATORS 96B40 98J20 98C10(E4) 98C10 98C10(E4) 98C10
OFF LINE TECHNICAL SUPERVISION	352C(W2) • / • •	352G(W2) • • MISSION SUPV
OFF LINE ANALYTICAL SUPPORT	98G2L 96B20 98J10(E4) 98G1L(E4) 98J10	98G2L 98H20 98J10(E4) 96B10(E4) 96B10
OFF LINE ADMIN SUPPORT		

OIC - •

SHIFT LEADER - • • •

ASAS BLOCK 1 MPT ANALYSIS

HEAVY DIVISION TCAE, TRAFFIC ANALYSIS TEAM,
TOE - 34286L (12)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 TCAE W/S 2 TCAE W/S 3 TCAE W/S	PRIMARY OPERATORS 352C(W2) • / •• 98C3L 98C20	PRIMARY OPERATORS 98C3L •• 98C20 98C20
OFF LINE TECHNICAL SUPERVISION		
OFF LINE ANALYTICAL SUPPORT	98C10(E4) 98C10(E4) 98C10	98C10(E4) 98C10 98C10
OFF LINE ADMIN SUPPORT		

OIC ••

SHIFT LEADER •••

ASAS BLOCK 1 MPT ANALYSIS

HEAVY DIVISION TCAE, ELINT ANALYSIS TEAM,
TOE - 34286L (5)

DUTY	SHIFT 1	SHIFT 2
ON LINE OPERATORS 1 TCAE W/S	PRIMARY OPERATORS 352J(W2) • / • •	PRIMARY OPERATORS 98J30 • •
OFF LINE TECHNICAL SUPERVISION		
OFF LINE ANALYTICAL SUPPORT	98J20 98J10(E4)	98J10(E4)
OFF LINE ADMIN SUPPORT		

OIC - • •

SHIFT LEADER - • • •

ASAS BLOCK 1 MPT ANALYSIS

OPERATOR MANPOWER REQUIREMENTS UNIT LEVEL

TSE	AIRBORNE CORPS	HEAVY CORPS	HEAVY DIVISION	LIGHT DIVISION
WCG OPERATOR OFFICER	1	1	0	2
WARRANT OFFICER ENLISTED	5 6	4 7	5 7	3 7
CCS	2	2	2	2
TSE TOTAL	14	14	14	14
TCAE				
TCAE W/S OPERATOR OFFICER	0	0	0	0
WARRANT OFFICER ENLISTED	4 8	2 10	2 10	2 10
CCS	0	0	0	2
TCAC	8	8	8	0
TCAE TOTAL	20	20	20	14

ASAS BLOCK 1 MPT ANALYSIS

OPERATOR MANPOWER REQUIREMENTS

FORCE LEVEL (3 CORPS, 8 DIVISIONS)

TSE	
WCG OPERATOR	9
OFFICER	47
WARRANT OFFICER	76
ENLISTED	22
CCS	154
TSE TOTAL	
TCAE	
TCAE W/S OPERATOR	0
OFFICER	24
WARRANT OFFICER	108
ENLISTED	6
CCS	64
TCAC	202
TCAE TOTAL	
GRAND TOTAL	356

ASAS BLOCK 1 MPT ANALYSIS

SUPERVISORY MANPOWER

ASAS BLOCK 1 MPT ANALYSIS

SUPERVISORY MANPOWER *

UNIT AND FORCE LEVEL

* DISPLAYED ONLY
FOR TRAINING
PURPOSES

TSE	ABN CORPS	HEAVY CORPS	HEAVY DIV	LT DIV	UNIT LEVEL TOTALS	FORCE LEVEL TOTALS
OFFICER						
35A - O3				1	1	3
35C - O3			1		1	5
35D - O3	1			1	2	4
35D - O4			1		1	5
35D - O5	1	1			2	3
35G - O4		1			1	2
SUBTOTALS	2	2	2	2	8	22
TCAE						
OFFICER						
35D - O3		2			2	4
35G - O3				1	1	3
35G - O4	1		1		2	6
WARRANT OFFICER						
352C - W2				1	1	3
352G - W2			1		1	5
352H - W2	1				1	1
SUBTOTALS	2	2	2	2	8	22
TOTALS	4	4	4	4	16	44

ASAS BLOCK 1 MPT ANALYSIS

MAINTENANCE MANPOWER

ASAS BLOCK 1 MPT ANALYSIS

CORPS MAINTENANCE MANPOWER INCREASES

ABN CORPS MI BN	
33T (E5)	1*
52C (E4)	1
52D (E5)	1
63B (E5)	1

TOTAL: 4

HVY CORPS MI BN	
33T (E3)	1*
52C (E4)	1
52D (E4)	1
63B (E3)	1

TOTAL: 4

* With Direct Support FY94

ASAS BLOCK 1 MPT ANALYSIS

DIVISION MAINTENANCE MANPOWER INCREASES

LIGHT DIV HHC	
33T	0*
52C	0
52D	0
63B (E3)	1

HVY DIV HHC	
33T	0*
52C	0
52D	0
63B (E4)	1

LIGHT DIV MI BN	
33T (E3)	1*
52C	0
52D	0
63B (E5)	1

HVY DIV MI BN	
33T (E4)	1* / **
52C	0
52D	0
63B (E4)	1

TOTAL: 3

* 33TS IN MI BN SUPPORT HHC

TOTAL: 3

** With Direct Support FY94

ASAS BLOCK 1 MPT ANALYSIS

MAINTENANCE MANPOWER REQUIREMENTS

FORCE LEVEL (3 CORPS, 8 DIVISIONS)

	AIRBORNE CORPS	HEAVY CORPS	HEAVY DIVISION	LIGHT DIVISION
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33T E1-E4		2	5	3
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E5-E6	1			
-------	---	--	--	--

E7-E9				
-------	--	--	--	--

<u>SUBTOTAL</u>	1	2	5	3
-----------------	---	---	---	---

52C E1-E4		2		
-----------	--	---	--	--

E5-E6	1			
-------	---	--	--	--

E7-E9				
-------	--	--	--	--

<u>SUBTOTAL</u>	1	2		
-----------------	---	---	--	--

52D E1-E4		2		
-----------	--	---	--	--

E5-E6	1			
-------	---	--	--	--

E7-E9				
-------	--	--	--	--

<u>SUBTOTAL</u>	1	2		
-----------------	---	---	--	--

63B E1-E4		2	10	3
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E5-E6	1			3
-------	---	--	--	---

E7-E9				6
-------	--	--	--	---

<u>SUBTOTAL</u>	1	2	10	6
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<u>TOTAL</u>	4	8	15	9
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TOTAL MAINTAINER MANPOWER BILL	36
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ASAS BLOCK 1 MPT ANALYSIS

FORCE LEVEL SUMMARY

ASAS BLOCK 1 MPT ANALYSIS

MANPOWER REQUIREMENTS FORCE LEVEL SUMMARY

	<u>OPERATOR</u>	<u>MAINTAINER</u>	<u>TOTAL</u>	<u>SUPERVISOR *</u>
OFFICER	9	0	9	22
WARRANT OFFICER	71	0	71	22
ENLISTED	276	36	312	0
<hr/>				
TOTAL	356	36	392	44

* SUPERVISOR MANPOWER / PERSONNEL IS NOT A REQUIREMENT AGAINST ASAS
AND IS SHOWN FOR TRAINING PURPOSES ONLY

NOTE: OPERATORS ARE WITHIN TOE CONSTRAINTS, MAINTAINERS ARE PLUS-UPS

ASAS BLOCK 1 MPT ANALYSIS

PERSONNEL ANALYSIS

ASAS BLOCK 1 MPT ANALYSIS

PERSONNEL DEFINITIONS

- **MANPOWER:** SPACES AUTHORIZED IN TOE
- **PERSONNEL:** FACES "REAL PEOPLE" REQUIRED TO FILL THE MANPOWER SPACES
- **PERSONNEL REQUIREMENTS ARE CALCULATED USING THE FOLLOWING:**
$$\frac{\text{Manpower by MOS \& Grade}}{(1\text{-THS ratio by MOS \& Grade})}$$
- **GRADUATE REQUIREMENTS PER YEAR ARE CALCULATED USING THE PERSONNEL REQUIREMENTS ABOVE AND PROMOTION AND ATTRITION RATES. E.G.**

$$\frac{1}{(1\text{-THS})} * (\text{Promotion} + \text{Attrition}) = \text{REQUIRED GRADUATES}$$

ASAS BLOCK 1 MPT ANALYSIS

OPERATOR PERSONNEL REQUIREMENTS

UNIT LEVEL

TSE	AIRBORNE CORPS	HEAVY CORPS	HEAVY DIVISION	LIGHT DIVISION
WCG OPERATOR				
OFFICER	1.14	1.21	0.00	2.42
WARRANT OFFICER	5.29	4.22	5.49	3.24
ENLISTED	6.26	7.31	7.38	7.35
SUBTOTAL	12.69	12.74	12.87	13.01
CCS	2.11	2.10	2.10	2.10
TCAE				
TCAE W/S OPERATOR				
OFFICER	0.00	0.00	0.00	0.00
WARRANT OFFICER	4.34	2.16	2.22	2.22
ENLISTED	8.40	10.48	10.52	10.43
SUBTOTAL	12.74	12.64	12.74	12.65
CCS	0.00	0.00	0.00	2.10
TCAC	8.46	8.43	8.63	0.00
TOTAL	36.00	35.91	36.34	29.86

ASAS BLOCK 1 MPT ANALYSIS

OPERATOR PERSONNEL REQUIREMENTS FORCE LEVEL (3 CORPS, 8 DIVISIONS)

	<u>MANPOWER PERSONNEL GRADUATES</u>	
35C	4	4.7
35G	5	6.0
TOTAL OFFICERS	9	10.7
350B	25	26.9
352C	30	32.2
352G	3	3.3
352J	13	14.8
TOTAL W/O	71	77.2
96B	64	66.5
96D	13	14.3
98C	162	171.5
98J	37	30.3
TOTAL ENLISTED	276	282.6
GRAND TOTAL	356	370.5
		120.5

ASAS BLOCK 1 MPT ANALYSIS

SUPERVISOR PERSONNEL REQUIREMENTS FORCE LEVEL (3 CORPS, 8 DIVISIONS)

MANPOWER PERSONNEL GRADUATES

OFFICER	35	41.1	9.0
WARRANT OFFICER	9	9.9	2.0
TOTAL	44	51.0	11.0

ASAS BLOCK 1 MPT ANALYSIS

MAINTAINER PERSONNEL REQUIREMENTS
FORCE LEVEL (3 CORPS, 8 DIVISIONS)

	<u>MANPOWER</u>	<u>PERSONNEL</u>	<u>GRADUATES</u>
<u>MOS</u>			
33T	11	11.5	6.9
52C	3	3.1	1.3
52D	3	3.0	0.9
63B	19	19.6	9.5
TOTAL	36	37.2	18.6

ASAS BLOCK 1 MPT ANALYSIS

PERSONNEL REQUIREMENTS FORCE LEVEL SUMMARY

	<u>OPERATOR</u>	<u>MAINTAINER</u>	<u>TOTAL</u>	<u>SUPERVISOR *</u>
OFFICER	10.7	0	10.7	41.1
WARRANT OFFICER	77.2	0	77.2	9.9
ENLISTED	282.6	37.2	319.8	0
TOTAL	370.5	37.2	407.7	51.0

* SUPERVISOR MANPOWER / PERSONNEL IS NOT A REQUIREMENT AGAINST ASAS
AND IS SHOWN FOR TRAINING PURPOSES ONLY

ASAS BLOCK 1 MPT ANALYSIS

GRADUATE REQUIREMENTS FORCE LEVEL SUMMARY

	<u>OPERATOR</u>	<u>MAINTAINER</u>	<u>TOTAL</u>	<u>SUPERVISOR *</u>
OFFICER	2.3	0	2.3	9.0
WARRANT OFFICER	20.0	0	20.0	2.0
ENLISTED	98.2	18.6	116.8	0.0
TOTAL	120.5	18.6	139.1	11.0

* SUPERVISOR MANPOWER / PERSONNEL IS NOT A REQUIREMENT AGAINST ASAS
AND IS SHOWN FOR TRAINING PURPOSES ONLY

ASAS BLOCK 1 MPT ANALYSIS

TRAINING ANALYSIS

ASAS BLOCK 1 MPT ANALYSIS

TRAINING ASSUMPTIONS

- ONE ASAS PDI APPROVED TO TRACK ALL ASAS TRAINED SOLDIERS.
- ASAS TRAINING STRATEGY:
 - TRAIN ONLY REPLACEMENT PERSONNEL - OPERATOR, SUPERVISOR, MAINTAINER.
 - ASAS SPECIFIC TRAINING IS IN ADDITION TO CURRENT TRAINING.
 - ALL ASAS INSTRUCTION IS CONDUCTED AT THE INTEL CENTER.

ASAS BLOCK 1 MPT ANALYSIS

TRAINING RESOURCE ASSUMPTIONS

- COURSE DATA BASED ON USAIC INSTITUTIONAL TRAINING RESOURCE REQUIREMENTS ANALYSIS (ITRRA) DATED AUG 91 AND THE INTEL CENTER - CD APPROVED TCAE ANALYST COURSE.
- ONLY PEACETIME POI HOURS USED - NO MOBILIZATION HOURS INCLUDED.
- TRAINING RESOURCE REQUIREMENTS FOR UNIT COLLECTIVE TRAINING ARE NOT INCLUDED.
- TRAINING RESOURCE AND COST ESTIMATES ARE MADE FOR THE FIELDDED STEADY STATE, AND DO NOT INCLUDE "RAMP-UP" COSTS.

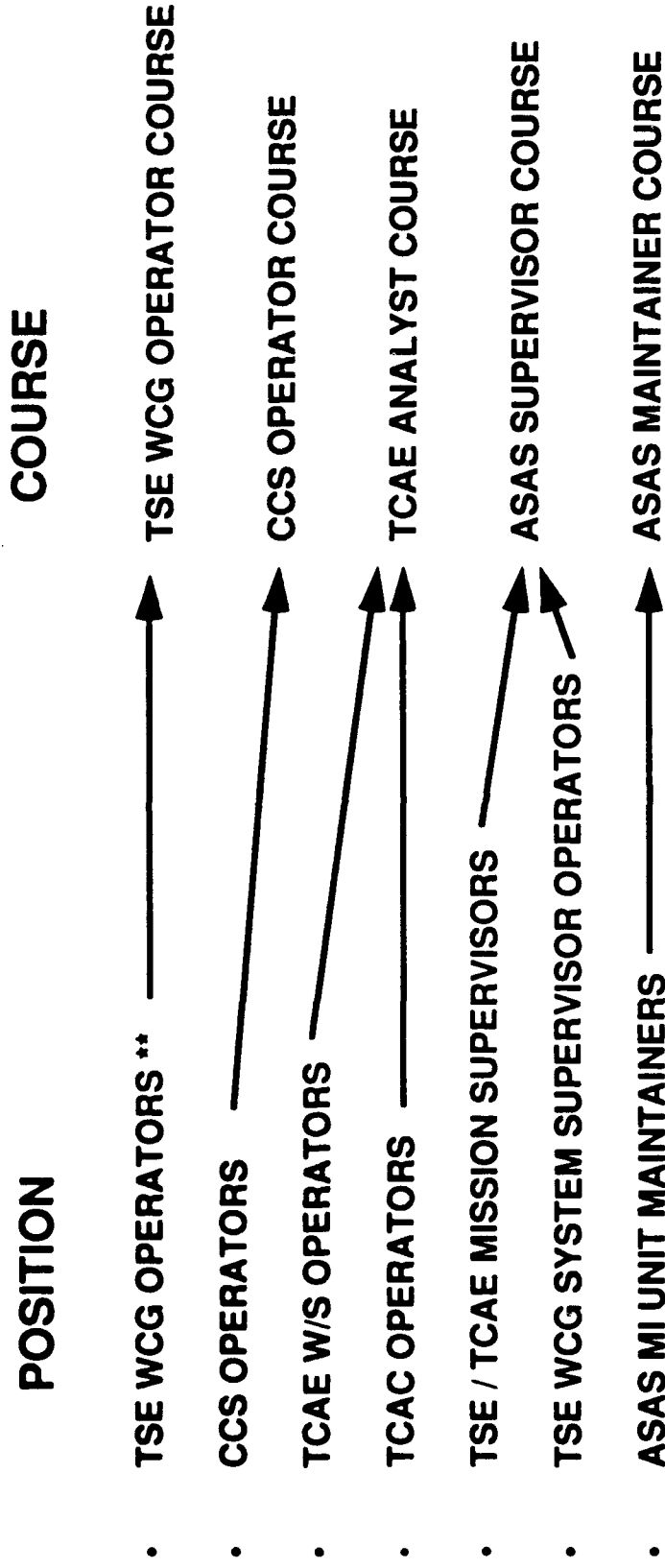
ASAS BLOCK 1 MPT ANALYSIS

HARDMAN TRAINING COURSES

- TSE WCG OPERATOR COURSE
- CCS OPERATOR COURSE
- TCAE ANALYST COURSE
- ASAS SUPERVISOR COURSE
- ASAS MAINTAINER COURSE

ASAS BLOCK 1 MPT ANALYSIS

HARDMAN TRAINING STRATEGY



** LESS SYSTEM SUPERVISORS

ASAS BLOCK 1 MPT ANALYSIS

ASAS TRAINING COURSES TSE WCG OPERATOR COURSE

OPTIMUM CLASS SIZE: 12

COURSE LENGTH: 365 HOURS / 9 WEEKS

ICH: 1255 HOURS

COURSE CONTENT:

61 HOURS
49 HOURS
95 HOURS
41 HOURS
61 HOURS

COLLECTION MANAGEMENT
DATABASE MANAGEMENT
SIT
TARGET
COMMON HARDWARE/SOFTWARE
SYSTEMS MANAGEMENT
PE/EXAM

58 HOURS

COURSE BASED ON ANALYSIS (ITRRA) OF NET
POI

TARGET AUDIENCE:

TSE WORKSTATION (WCG) OPERATOR (CMF 96
AND 98, WO, AND OFFICER OPERATORS)

ASAS BLOCK 1 MPT ANALYSIS

ASAS TRAINING COURSES **CCS COURSE**

OPTIMUM CLASS SIZE: 7

COURSE LENGTH: 230 HOURS / 6 WEEKS

ICH: 645 HOURS

COURSE CONTENT:

28	HOURS	HARDWARE
144	HOURS	INITIALIZATION OPERATIONS
58	HOURS	PE/EXAM

**COURSE BASED ON ANALYSIS (ITRRA) OF NET
POI**

TARGET AUDIENCE: CCS OPERATOR (CMF 98 PERSONNEL)

ASAS BLOCK 1 MPT ANALYSIS

ASAS TRAINING COURSES **TCAE ANALYST COURSE**

OPTIMUM CLASS SIZE:

12

COURSE LENGTH:

200 HOURS / 5 WEEKS

ICH:

753 HOURS

COURSE CONTENT:

**80 HOURS COMMS (TCAC AND CCS)
100 HOURS CEI TRAINING
20 HOURS END OF TRAINING CPX**

TARGET AUDIENCE:

**TCAE W/S AND TCAC OPERATORS (CMF 96,
AND CMF 98, AND WARRANT OFFICER
OPERATORS)**

ASAS BLOCK 1 MPT ANALYSIS

ASAS TRAINING COURSES ASAS SUPERVISOR COURSE

OPTIMUM CLASS SIZE: 12

COURSE LENGTH: 209 HOURS / 5 WEEKS

ICH: 412 HOURS

COURSE CONTENT:

17 HOURS	COMMON HARDWARE/SOFTWARE
64 HOURS	SYSTEM OPERATIONS
67 HOURS	ENCLAVE OPERATIONS
61 HOURS	PE/EXAM

COURSE BASED ON ANALYSIS (ITRRA) OF NET
POI

TARGET AUDIENCE:

TSE/TCAE SUPERVISORS AND TSE SYSTEM
SUPERVISORS (CMF 96 AND 98, WO, AND
OFFICERS IN MISSION SUPV AND TSE SPV/FMR
SLOTS)

ASAS BLOCK 1 MPT ANALYSIS

ASAS TRAINING COURSES **ASAS MAINTAINER COURSE**

**OPTIMUM CLASS SIZE: 3 - BASED ON LOW ANNUAL GRADUATE
REQUIREMENT**

COURSE LENGTH: 240 HOURS / 6 WEEKS

ICH: 240 HOURS

COURSE CONTENT: NO CHANGE FROM NET POI

TARGET AUDIENCE: MOS 33T GRADES E3 - E5

ASAS BLOCK 1 MPT ANALYSIS

ASAS TRAINING REQUIREMENTS

COURSE	REQUIRED GRADUATES	COST PER GRADUATE (\$K)	ANNUAL COST (\$K)	NEW INSTRUCTORS*
TSE WCG OPERATOR				
• OFFICER	0.8	\$ 21.3	\$ 17.1	0.1
• WARRANT OFFICER	9.8	\$ 13.8	\$ 135.2	1.4
• ENLISTED	20.4	\$ 11.8	\$ 241.4	2.5
TOTAL	31.0		\$ 393.7	4.0
CCS OPERATOR (ENLISTED)	10.8	\$ 8.9	\$ 96.0	1.2
TCAE ANALYST				
• WARRANT OFFICER	7.5	\$ 7.8	\$ 58.7	0.7
• ENLISTED	66.4	\$ 6.8	\$ 450.3	4.7
TOTAL	73.9		\$ 509.0	5.4
ASAS SUPERVISOR				
• OFFICER	10.6	\$ 9.1	\$ 96.4	0.4
• WARRANT OFFICER	4.6	\$ 7.9	\$ 36.5	0.2
• ENLISTED	0.9	\$ 6.9	\$ 6.2	0.0
TOTAL	16.1		\$ 139.1	0.6
ASAS MAINTAINER (ENLISTED)	6.9	\$ 7.1	\$ 48.8	0.6

* BASED ON HARDMAN CALCULATIONS

ASAS BLOCK 1 MPT ANALYSIS

ASAS TRAINING COSTS

<u>COURSE</u>	<u>ANNUAL COST (\$K)</u>	<u>NEW INSTRUCTORS*</u>
TSE WCG OPERATORS	\$ 394	4.0
CCS OPERATORS	\$ 96	1.2
TCAE ANALYST	\$ 509	5.4
ASAS SUPERVISORS	\$ 139	0.6
ASAS MAINTAINERS	\$49	0.6
<hr/>		
TOTAL TRAINING	\$ 1,187	11.8

* BASED ON HARDMAN CALCULATIONS

ASAS BLOCK 1 MPT ANALYSIS

IMPACT ANALYSIS

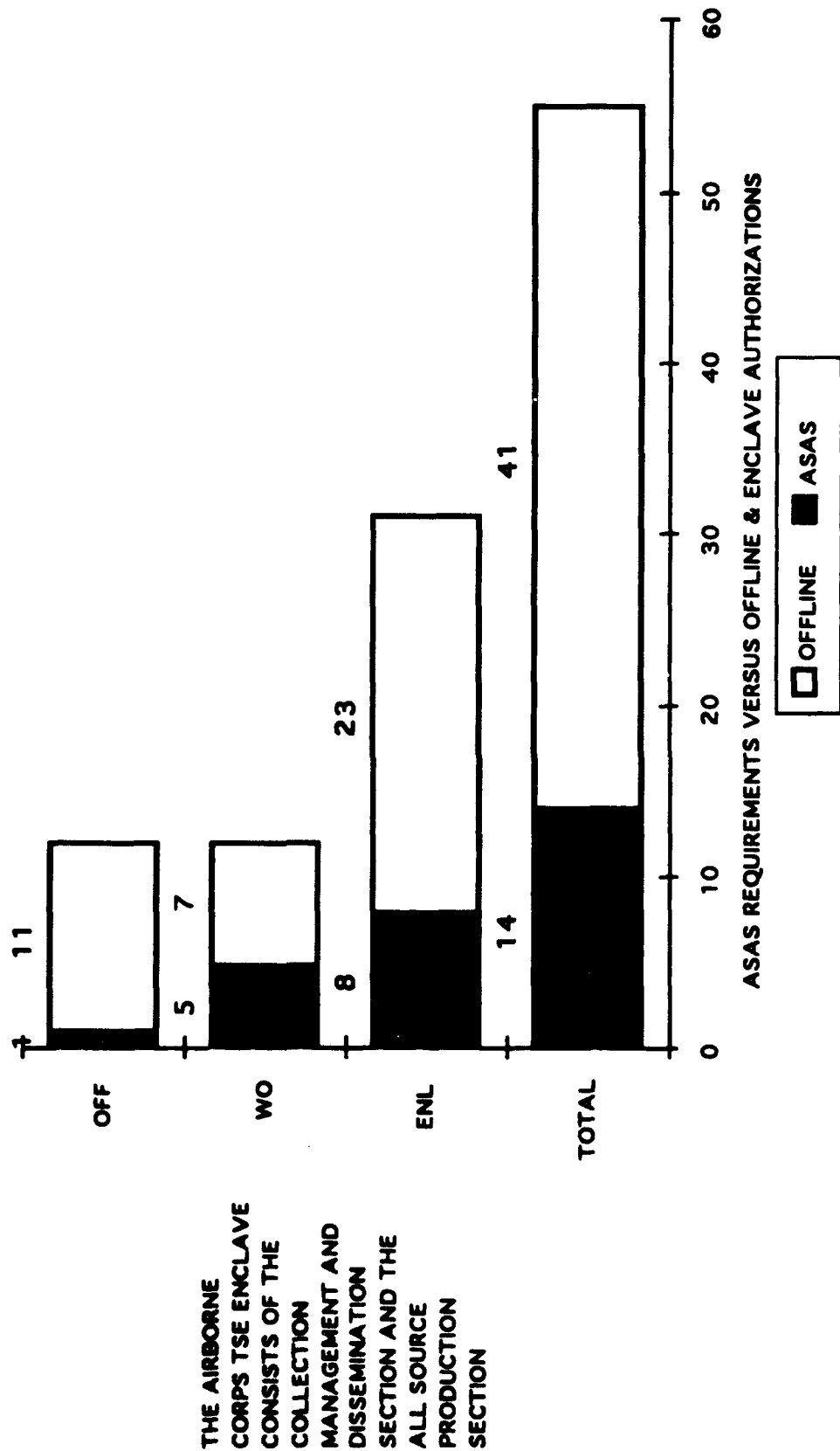
ASAS BLOCK 1 MPT ANALYSIS

MANPOWER IMPACTS

- OPERATORS WITHIN CURRENT TOE AUTHORIZATIONS
- 36 ADDITIONAL MAINTAINERS REQUIRED
- CURRENT TOE MOS & GRADES NOT OPTIMAL FOR ASAS OPERATORS E.G.
 - LINGUISTS PERFORMING WORKSTATION DUTIES
 - OVERGRADE CCS OPERATORS

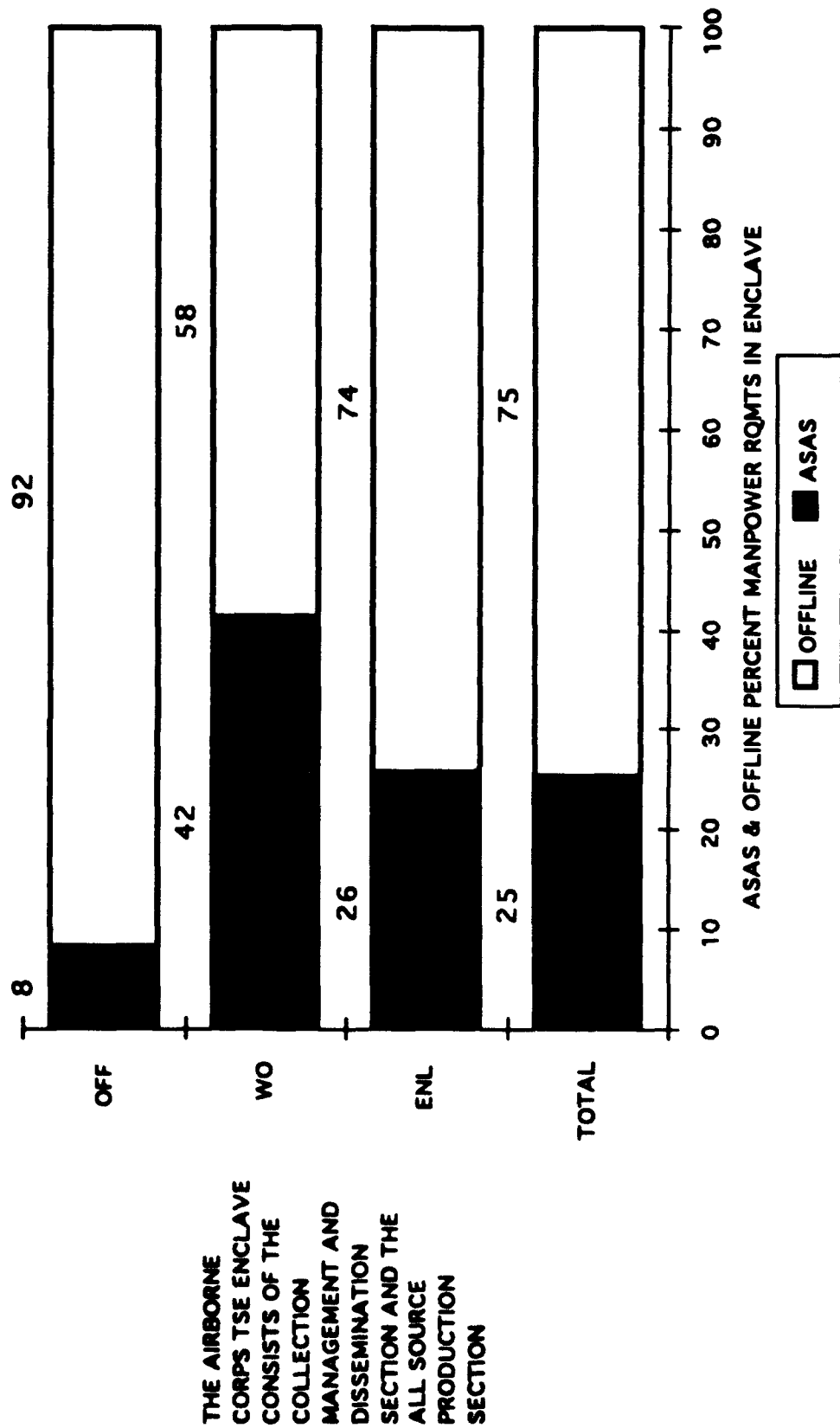
ASAS BLOCK 1 MPT ANALYSIS

ENCLAVE MANPOWER IMPACTS AIRBORNE CORPS TSE ENCLAVE



ASAS BLOCK 1 MPT ANALYSIS

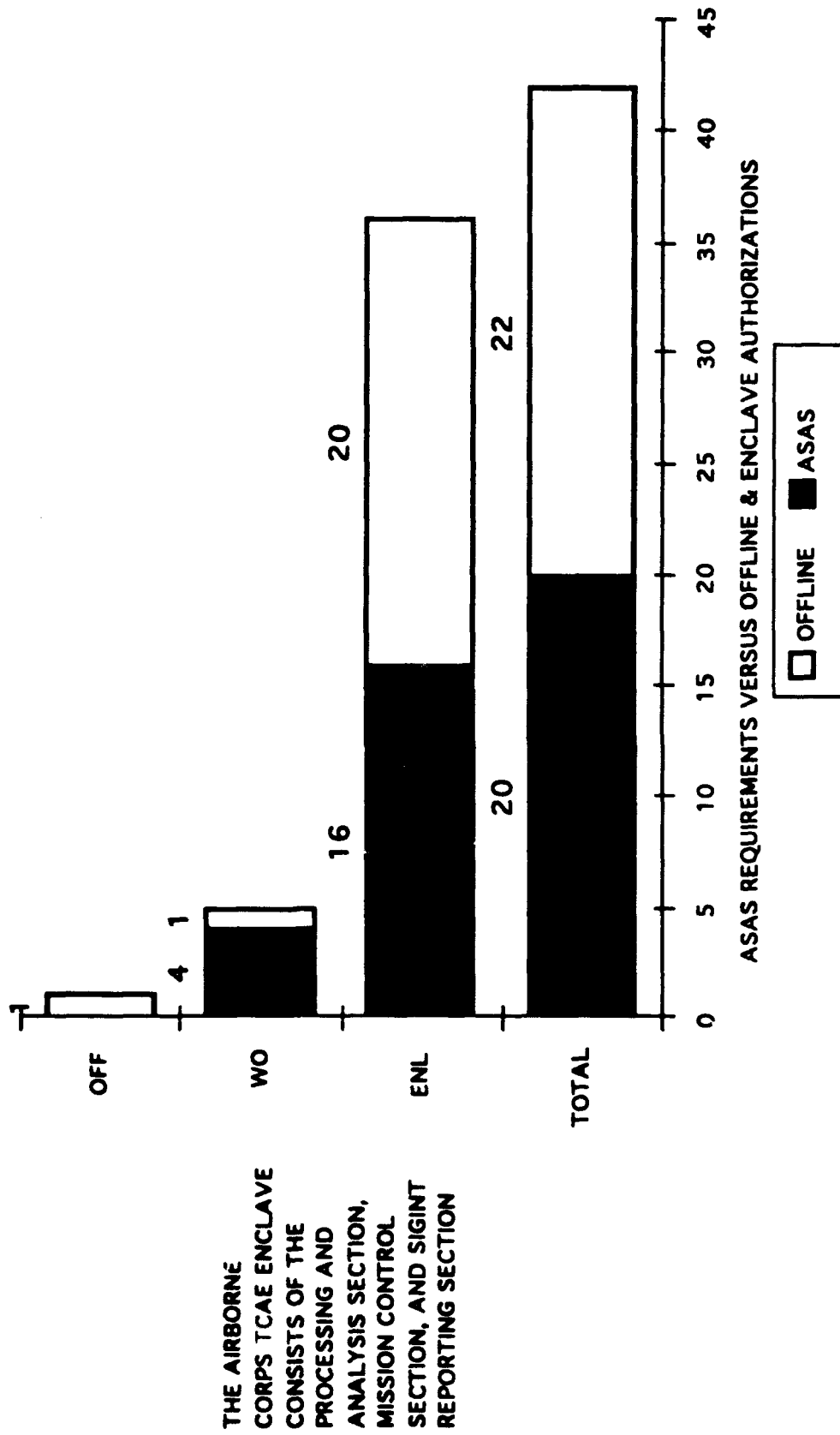
ENCLAVE MANPOWER PERCENTAGE IMPACTS AIRBORNE CORPS TSE ENCLAVE



ASAS BLOCK 1 MPT ANALYSIS

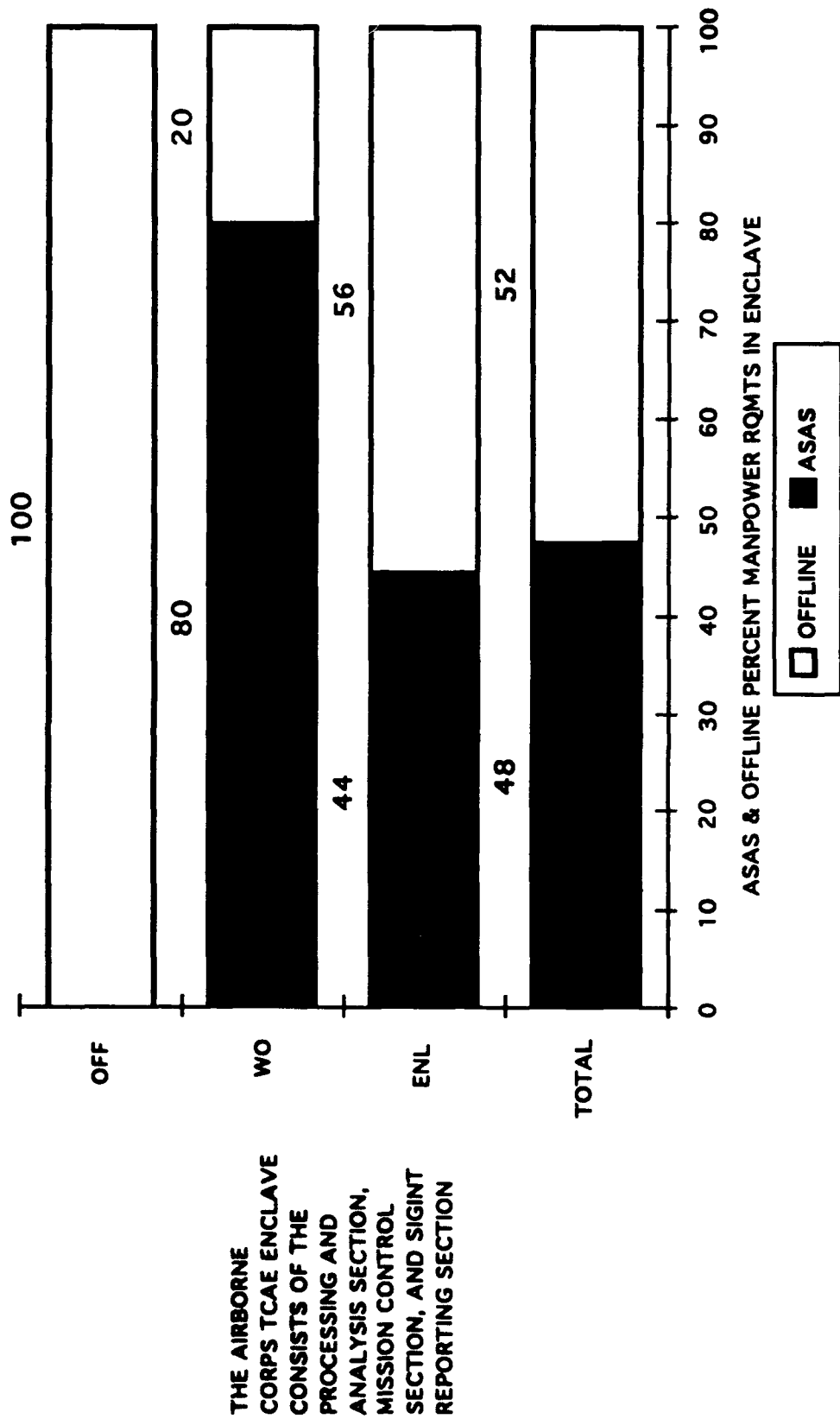
ENCLAVE MANPOWER IMPACTS

AIRBORNE CORPS TCAE ENCLAVE



ASAS BLOCK 1 MPT ANALYSIS

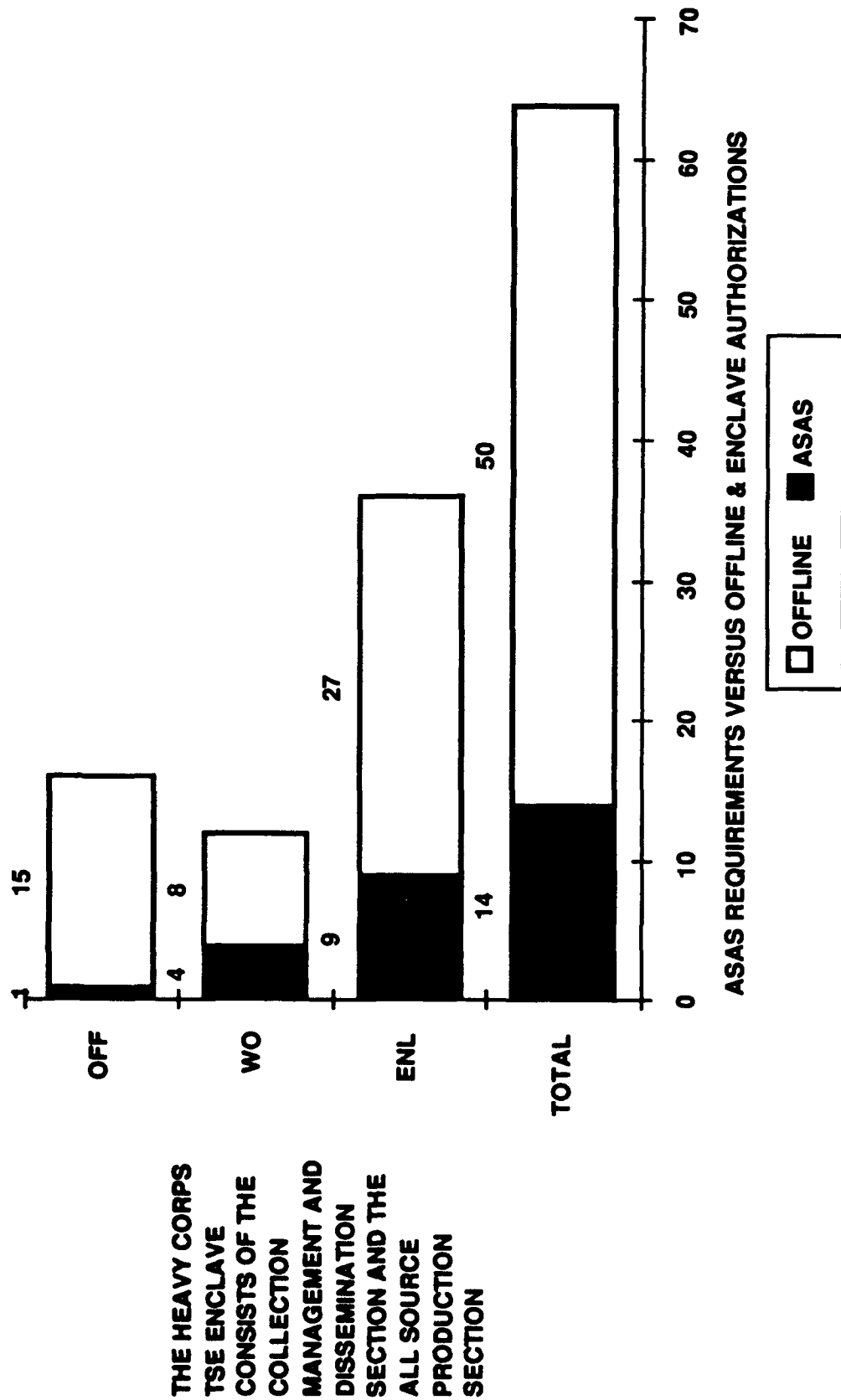
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ASAS BLOCK 1 MPT ANALYSIS

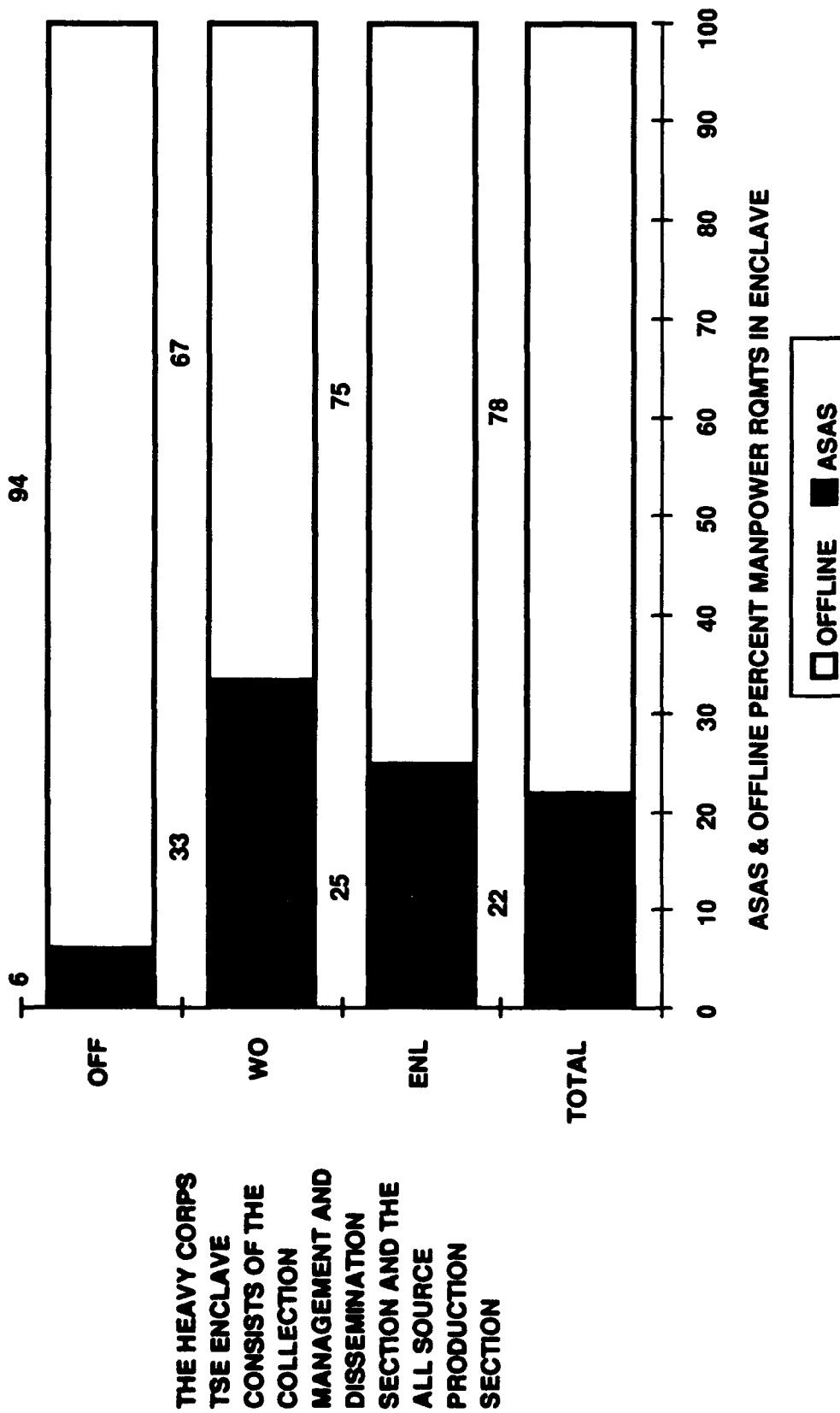
ENCLAVE MANPOWER IMPACTS

HEAVY CORPS TSE ENCLAVE



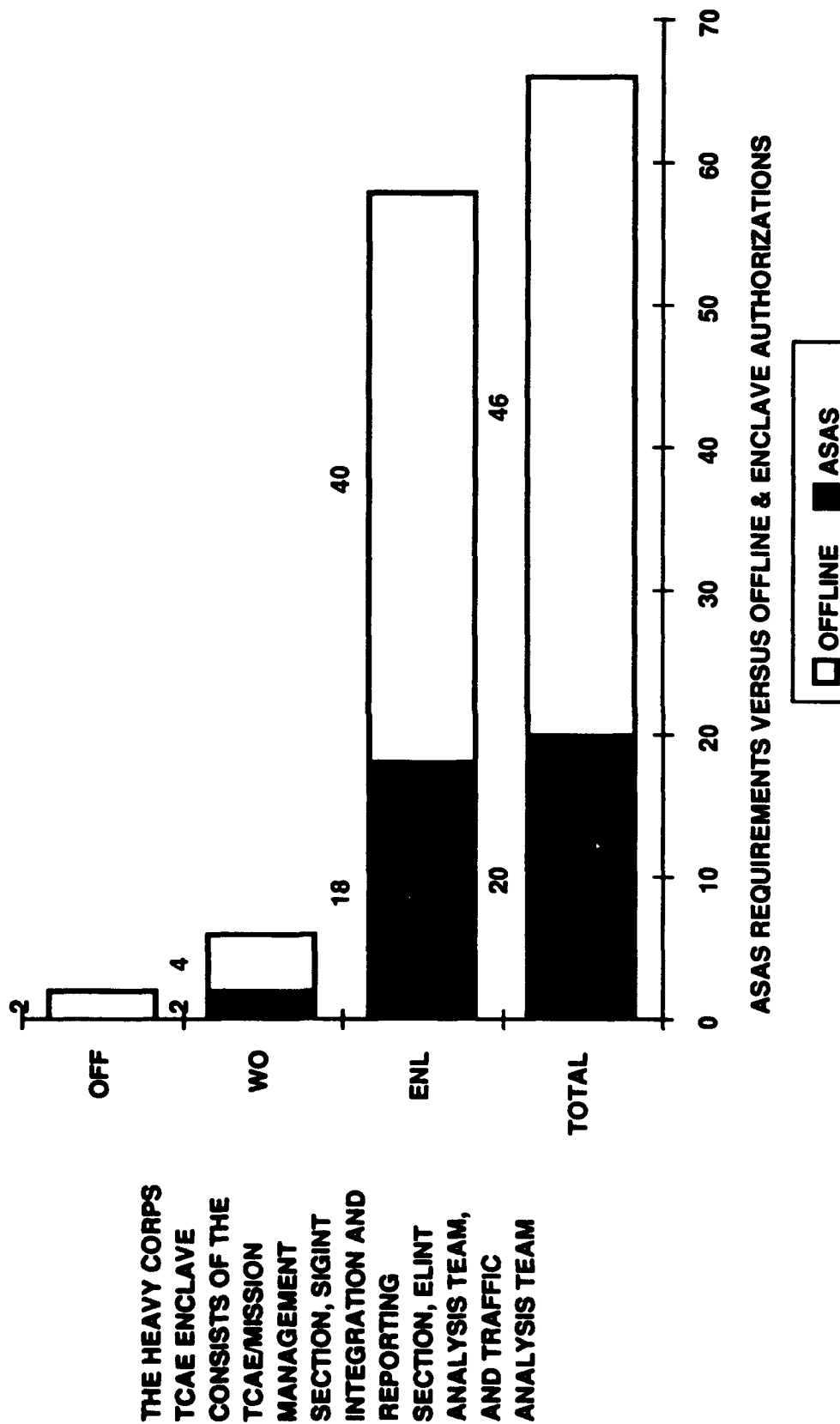
ASAS BLOCK 1 MPT ANALYSIS

ENCLAVE MANPOWER PERCENTAGE IMPACTS HEAVY CORPS TSE ENCLAVE



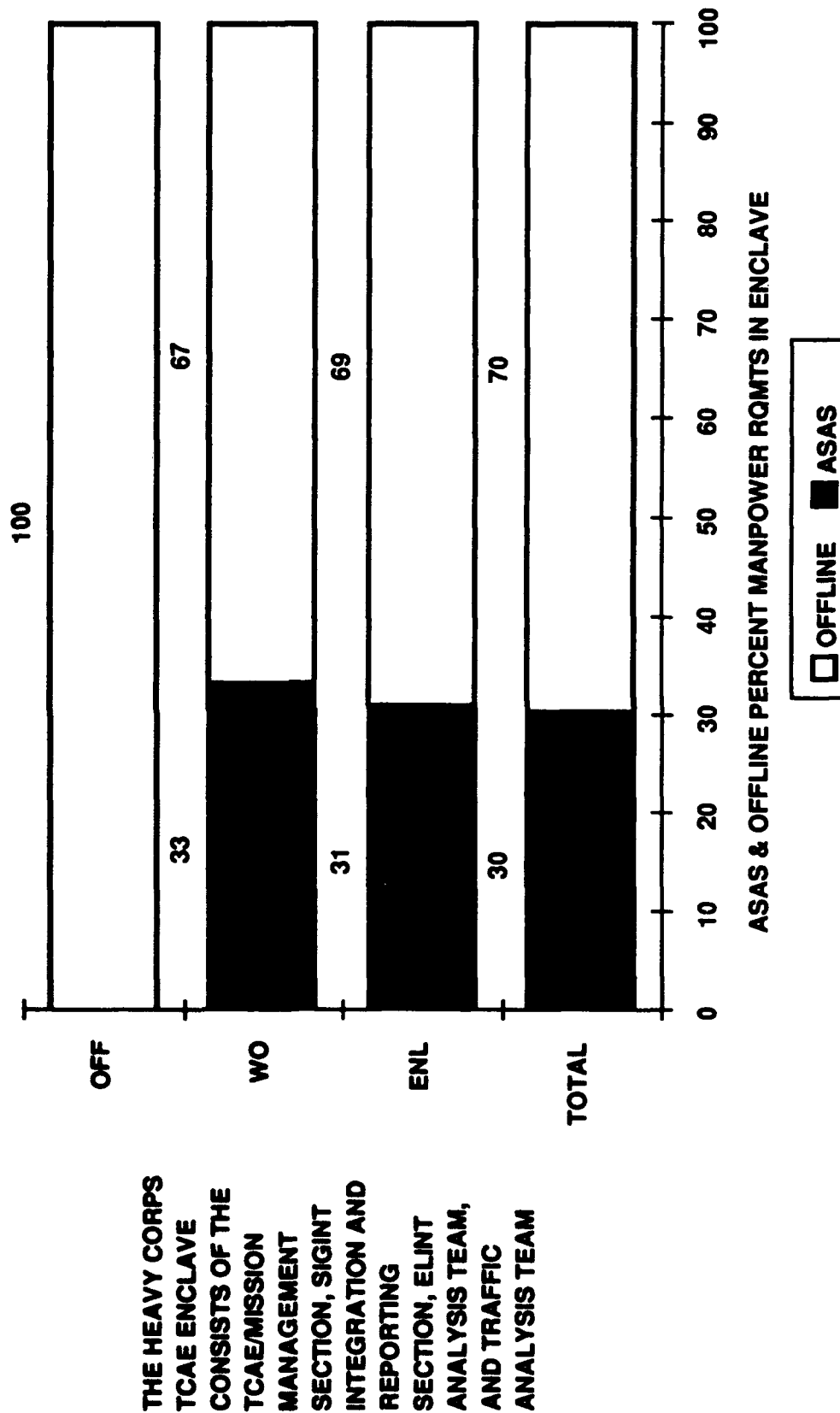
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ENCLAVE MANPOWER IMPACTS HEAVY CORPS TCAE ENCLAVE



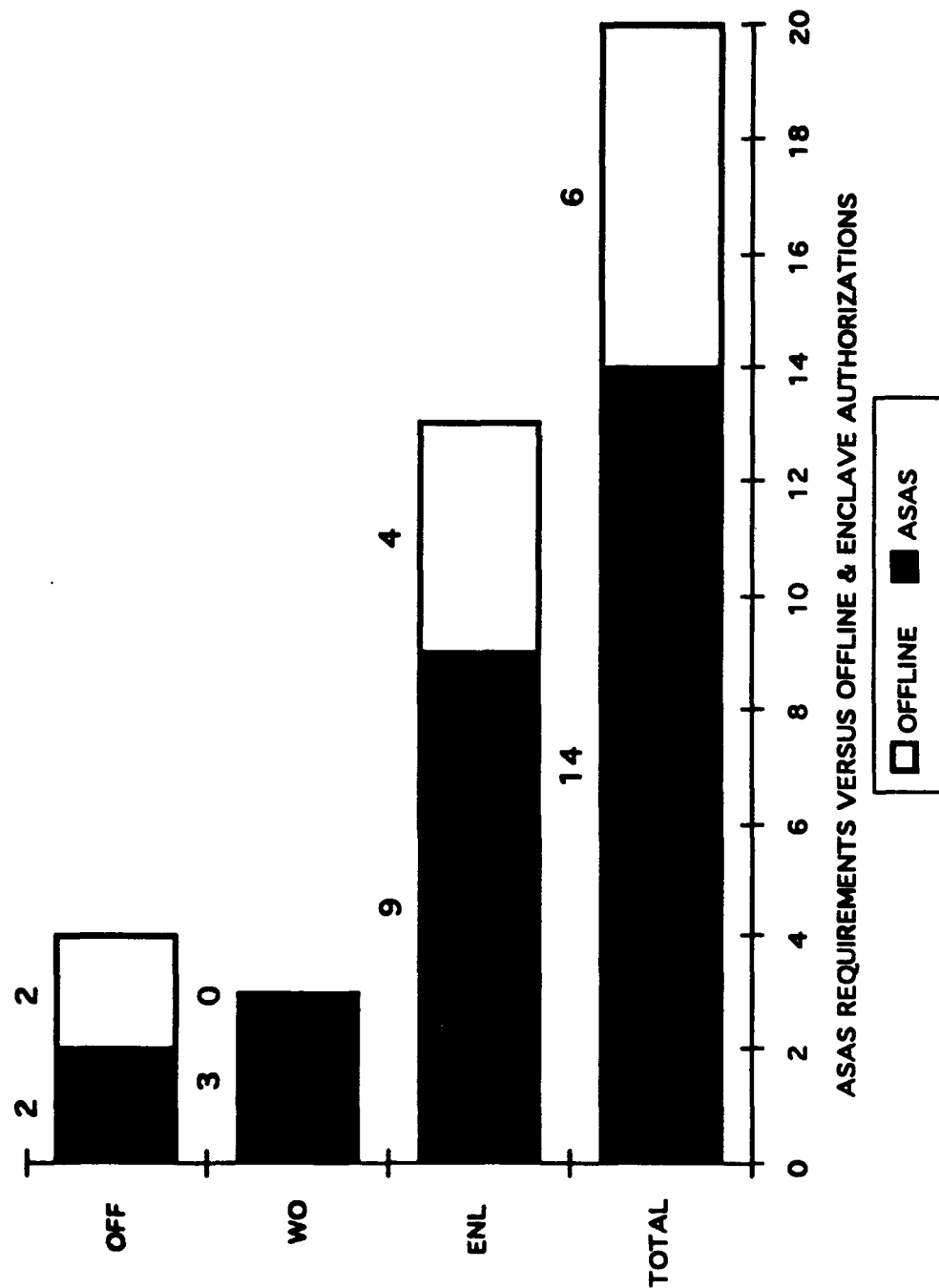
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ENCLAVE MANPOWER PERCENTAGE IMPACTS HEAVY CORPS TCAE ENCLAVE



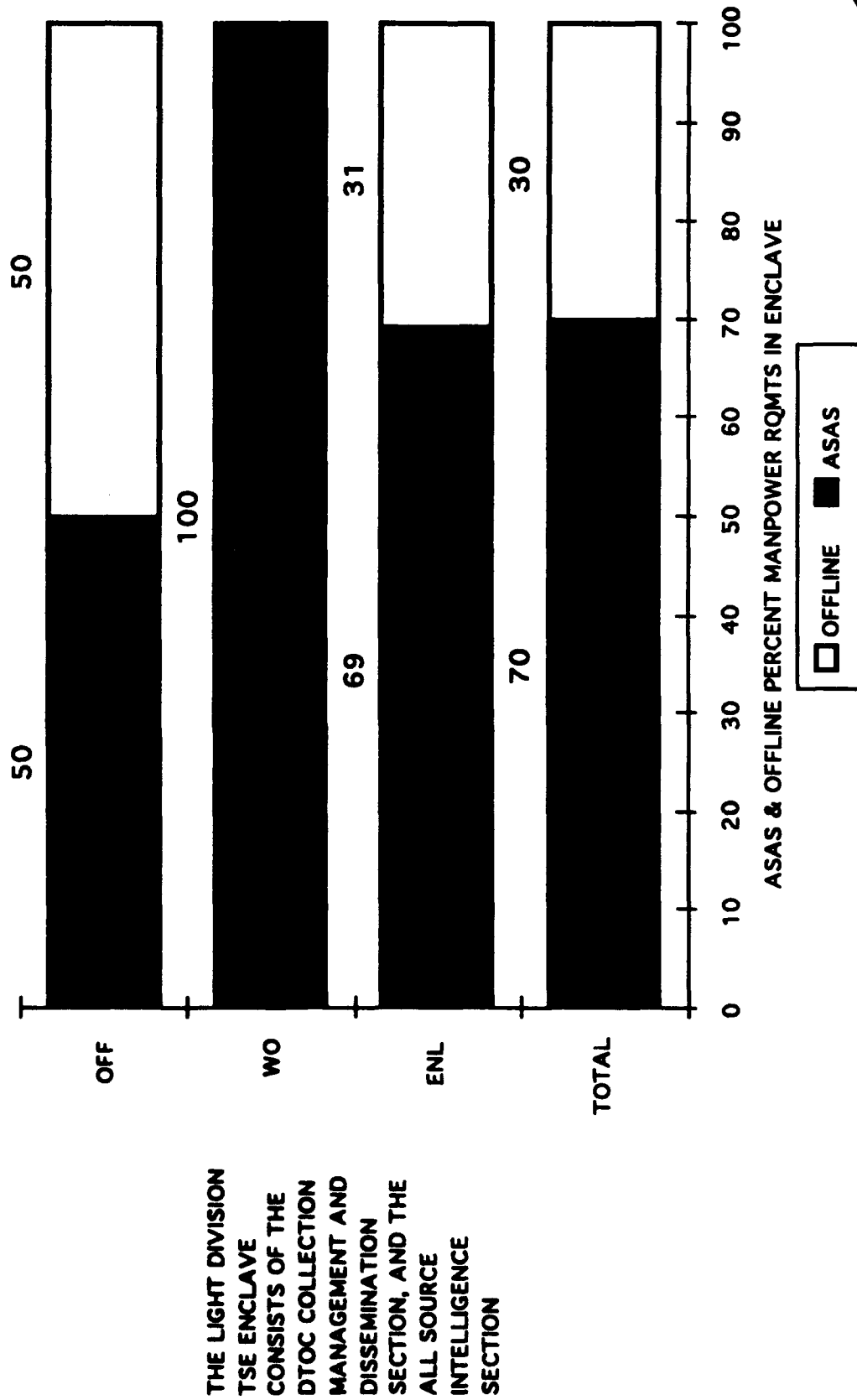
ASAS BLOCK 1 MPT ANALYSIS

ENCLAVE MANPOWER IMPACTS LIGHT DIVISION TSE ENCLAVE



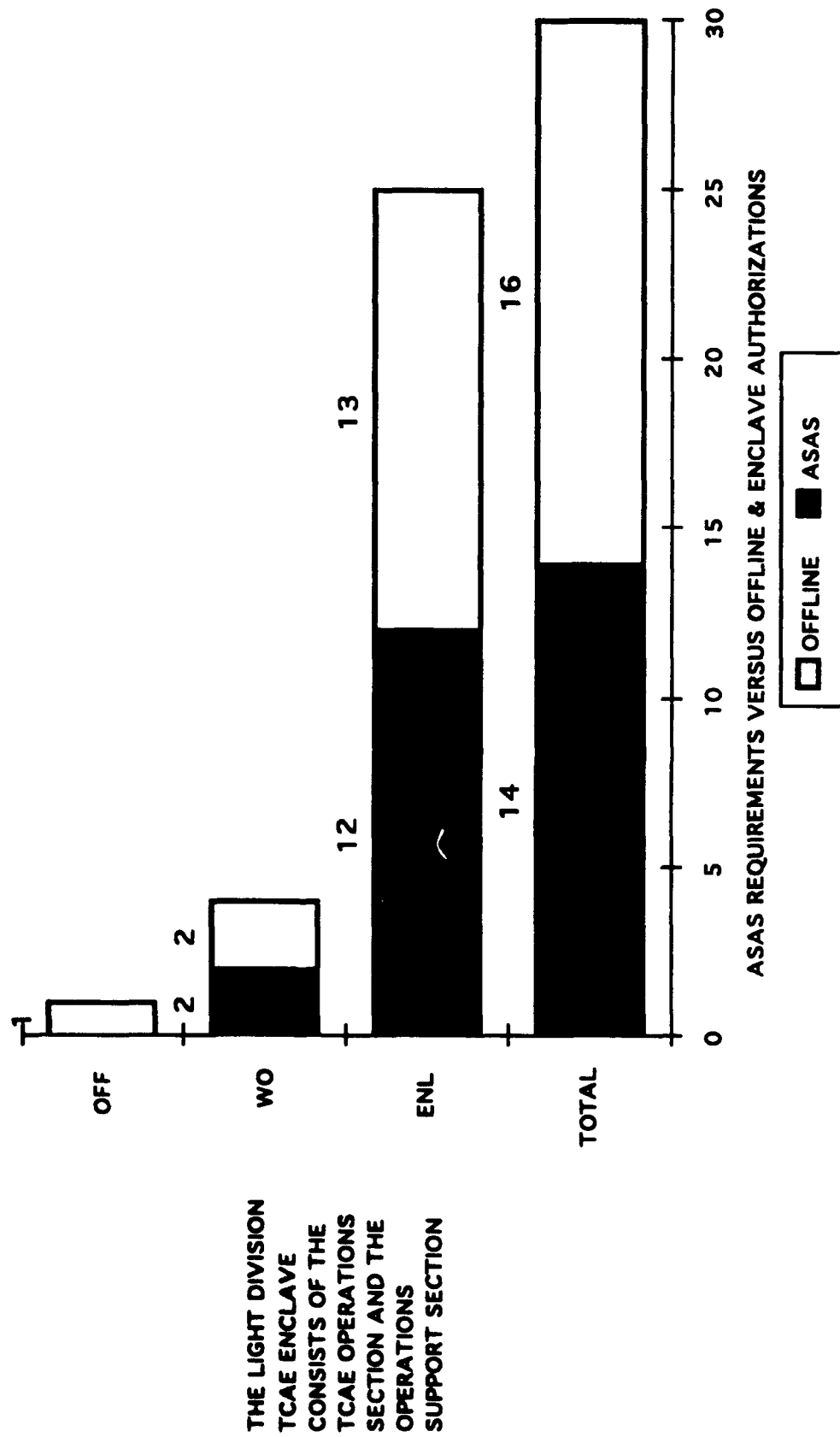
ASAS BLOCK 1 MPT ANALYSIS

ENCLAVE MANPOWER PERCENTAGE IMPACTS LIGHT DIVISION TSE ENCLAVE



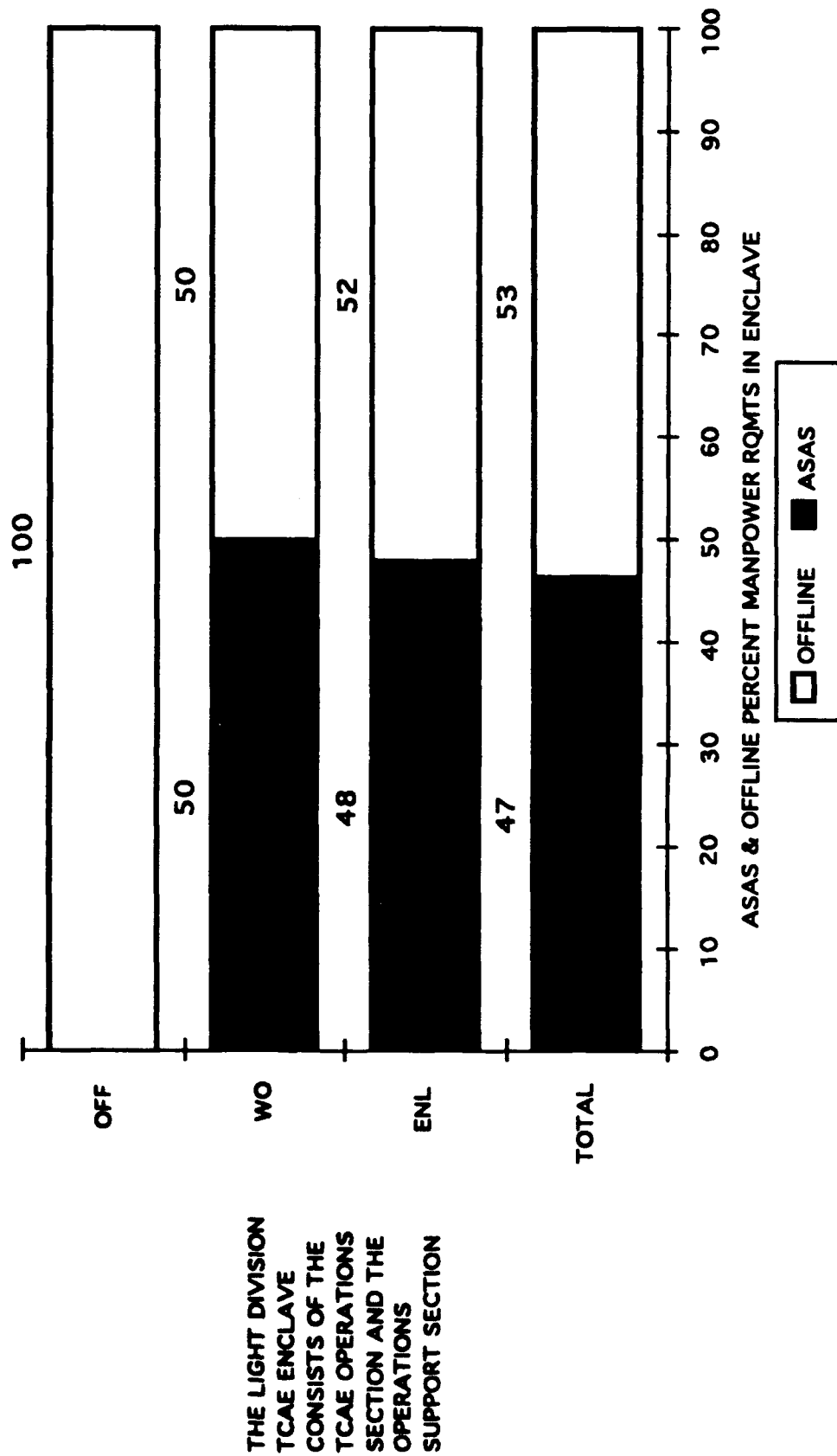
ASAS BLOCK 1 MPT ANALYSIS

ENCLAVE MANPOWER IMPACTS LIGHT DIVISION TCAE ENCLAVE



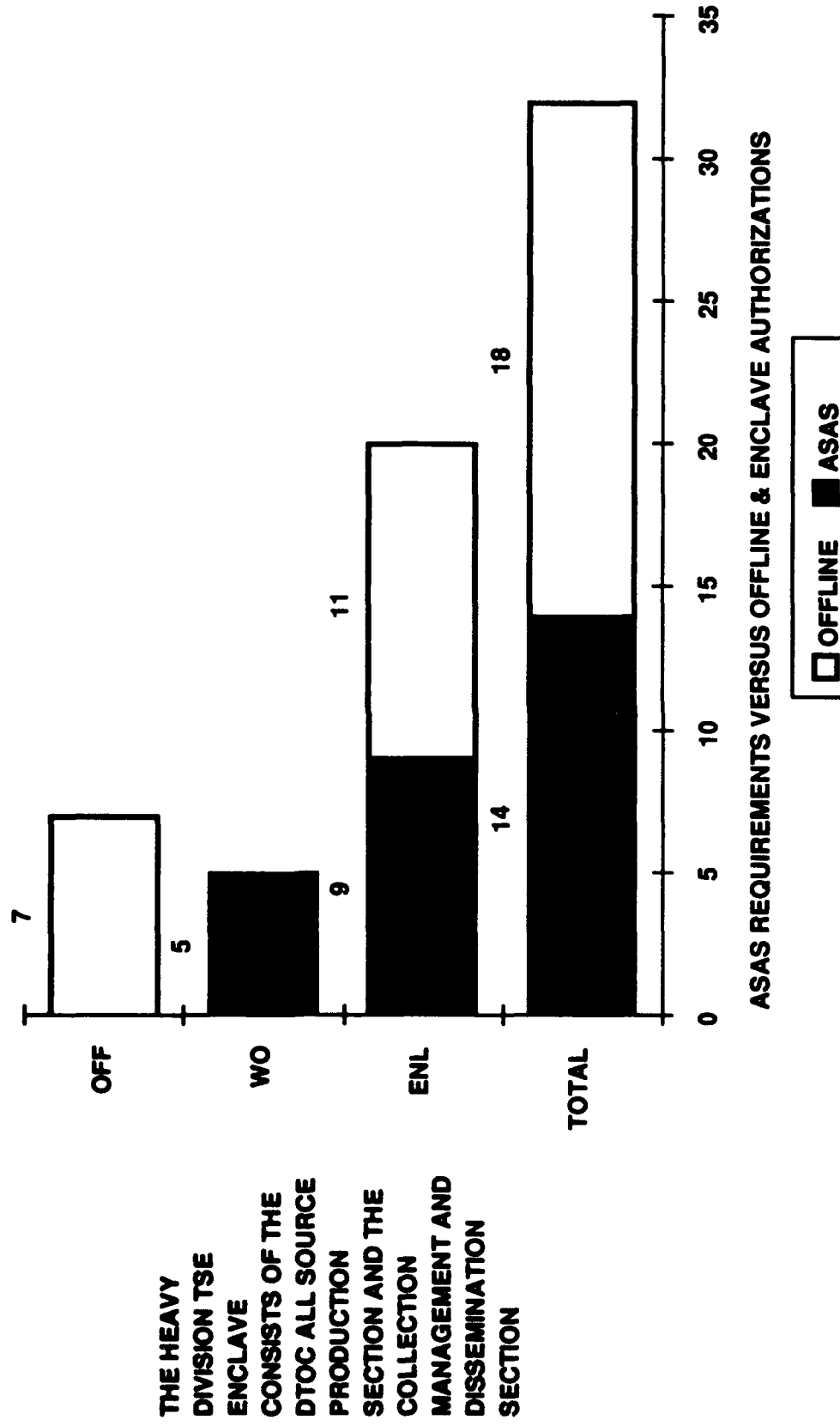
ASAS BLOCK 1 MPT ANALYSIS

ENCLAVE MANPOWER PERCENTAGE IMPACTS LIGHT DIVISION TCAC ENCLAVE



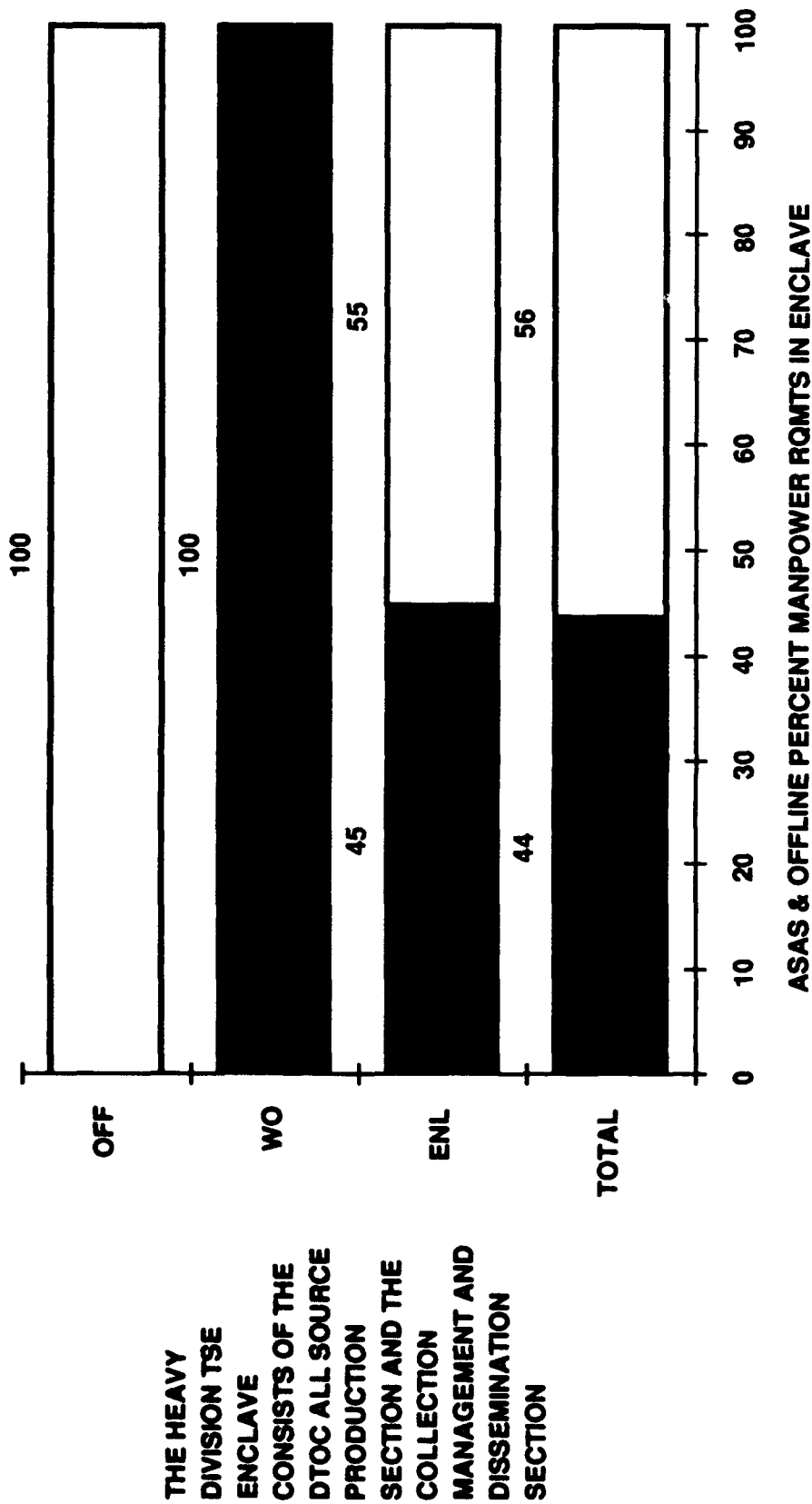
ASAS BLOCK 1 MPT ANALYSIS

ENCLAVE MANPOWER IMPACTS HEAVY DIVISION TSE ENCLAVE



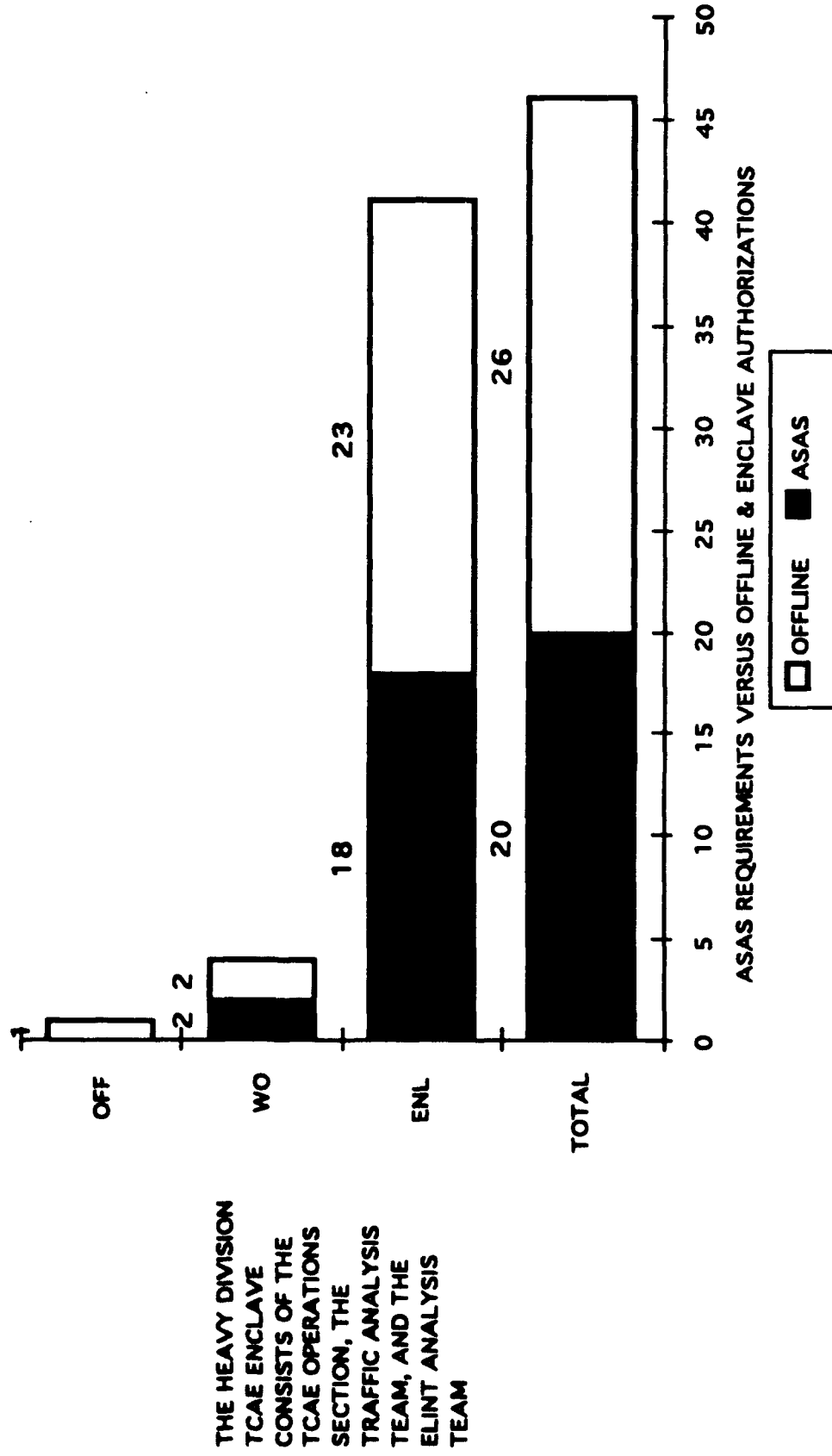
ASAS BLOCK 1 MPT ANALYSIS

ENCLAVE MANPOWER PERCENTAGE IMPACTS HEAVY DIVISION TSE ENCLAVE



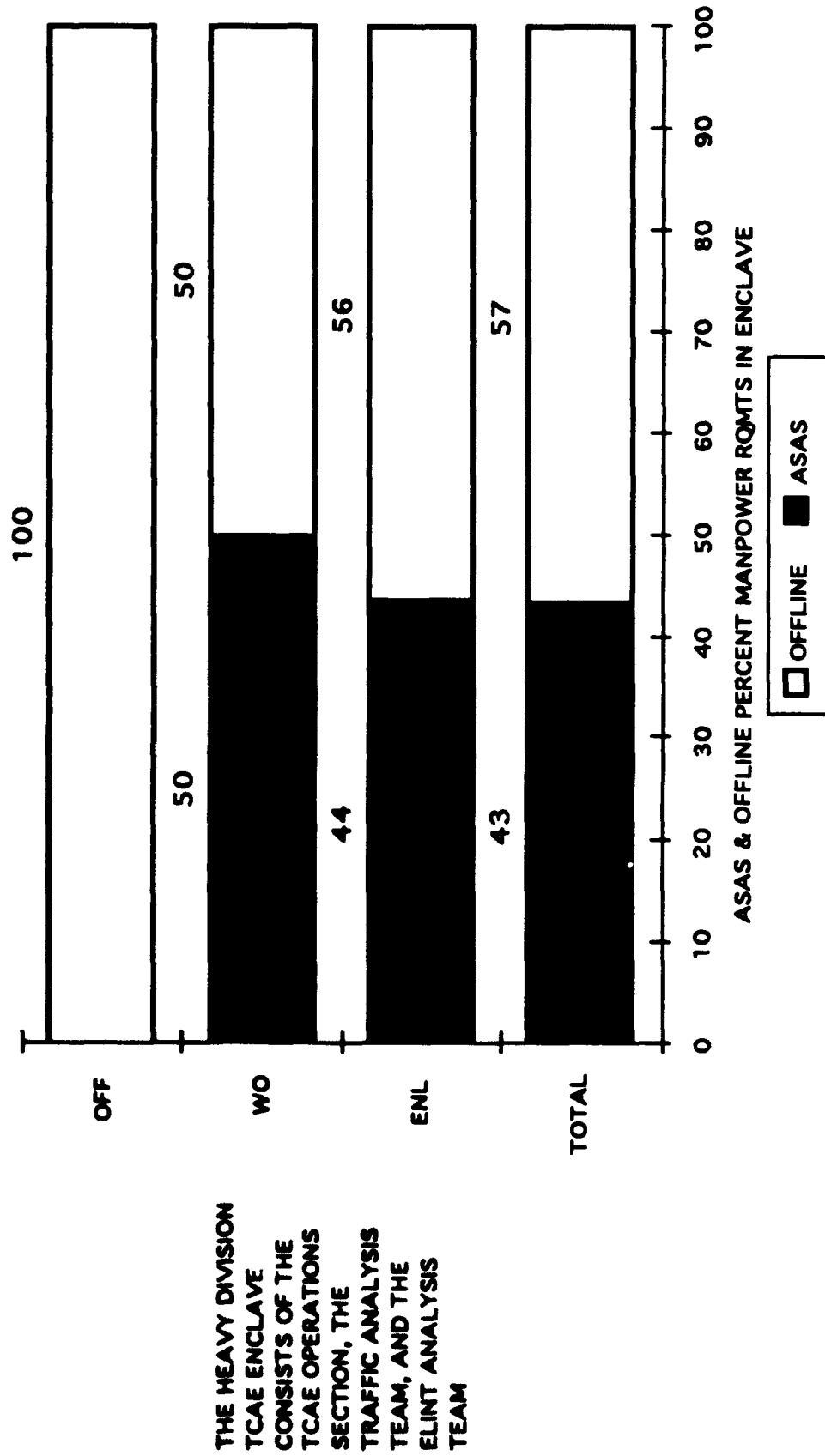
ASAS BLOCK 1 MPT ANALYSIS

ENCLAVE MANPOWER IMPACTS HEAVY DIVISION TCAE ENCLAVE



ASAS BLOCK 1 MPT ANALYSIS

ENCLAVE MANPOWER PERCENTAGE IMPACTS HEAVY DIVISION TCAC ENCLAVE



ASAS BLOCK 1 MPT ANALYSIS

OPERATOR MANPOWER IMPACTS FORCE LEVEL (3 CORPS, 8 DIVISIONS) COMMISSIONED OFFICERS

	ARMY AUTHORIZED STRENGTH *	ASAS REQUIREMENT	PERCENTAGE REQUIREMENT
OFFICERS (AOC 35)			
LIEUTENANT	574	0	0.0
CAPTAIN	2,190	8	0.3
MAJOR	1,145	1	0.0
TOTALS	3,909	9	0.2

* FY90 DATA

ASAS BLOCK 1 MPT ANALYSIS

OPERATOR MANPOWER IMPACTS FORCE LEVEL (3 CORPS, 8 DIVISIONS) WARRANT OFFICERS

WARRANT OFFICERS		ARMY AUTHORIZED STRENGTH	ASAS REQUIREMENT	PERCENTAGE REQUIREMENT
350B	W1-W2	48	12	25.0
350B	W3-W4	38	13	34.2
	SUBTOTAL	86	25	29.1
352C	W1-W2	81	12	14.8
352C	W3-W4	63	18	28.6
	SUBTOTAL	144	30	20.8
352G	W1-W2	37	1	2.7
352G	W3-W4	26	2	7.7
	SUBTOTAL	63	3	4.8
352J	W1-W2	30	13	43.3
352J	W3-W4	24	0	0.0
	SUBTOTAL	54	13	24.1
TOTALS		347	71	20.5

ASAS BLOCK 1 MPT ANALYSIS

OPERATOR MANPOWER IMPACTS FORCE LEVEL (3 CORPS, 8 DIVISIONS) ENLISTED

ENLISTED	ARMY AUTHORIZED STRENGTH	ASAS REQUIREMENT	PERCENTAGE REQUIREMENT
96B E1-E4	612	16	2.6
E5-E6	1,575	37	2.3
E7-E9	621	11	1.8
SUBTOTAL	2,808	64	2.3
96D E1-E4	196	0	0.0
E5-E6	348	5	1.4
E7-E9	146	8	5.5
SUBTOTAL	690	13	1.9
98C E1-E4	1,071	58	5.4
E5-E6	1,139	97	8.5
E7-E9	230	7	3.0
SUBTOTAL	2,440	162	6.6
98J E1-E4	482	10	2.1
E5-E6	367	22	6.0
E7-E9	91	5	5.5
SUBTOTAL	940	37	3.9
TOTAL	6,878	276	4.0

ASAS BLOCK 1 MPT ANALYSIS

MAINTAINER MANPOWER IMPACTS FORCE LEVEL (3 CORPS, 8 DIVISIONS)

ENLISTED	ARMY AUTHORIZED STRENGTH	ASAS REQUIREMENT	PERCENTAGE INCREASE
33T E1-E4	251	10	4.0
E5-E6	168	1	0.6
E7-E9	79	0	0.0
SUBTOTAL	498	11	2.2
52C E1-E4	1,064	3	0.3
E5-E6	681	0	0.0
E7-E9	0	0	0.0
SUBTOTAL	1,745	3	0.2
52D E1-E4	3,840	2	0.1
E5-E6	1,724	1	0.1
E7-E9	0	0	0.0
SUBTOTAL	5,564	3	0.1
63B E1-E4	7,741	15	0.2
E5-E6	4,861	4	0.1
E7-E9	2,000	0	0.0
SUBTOTAL	14,602	19	0.2
TOTAL	22,409	36	0.2

ASAS BLOCK 1 MPT ANALYSIS

PERSONNEL IMPACTS

- **MINIMAL IMPACT ON OFFICERS AND/OR WARRANT OFFICERS**
 - **FY 91 MOS INVENTORY EXCEEDS 100% EXCEPT FOR
MOS 352J EMANATIONS ANALYST AT PAYGRADE W2**
- **IMPACT ON THE ENLISTED FORCE**
 - **CMF 96 CURRENTLY AT 107% STRENGTH**
 - **CMF 98 CURRENTLY AT 104% STRENGTH**

ASAS BLOCK 1 MPT ANALYSIS

PERSONNEL IMPACTS FORCE LEVEL (3 CORPS, 8 DIVISIONS) COMMISSIONED

	ARMY OPERATING STRENGTH *	% AR **	ASAS RQMT	ASAS % OF OPER STR
OFFICERS (AOC 35)				
LIEUTENANT	1,478	257.1	0.0	0.0
CAPTAIN	2,328	106.3	9.6	0.4
MAJOR	848	74.1	1.1	0.1
TOTALS	4,654	119.1	10.7	0.2

* FY90 DATA

** AR = OPER STR/AUTH STR

ASAS BLOCK 1 MPT ANALYSIS

PERSONNEL IMPACTS FORCE LEVEL (3 CORPS, 8 DIVISIONS) WARRANT OFFICER

WARRANT OFFICERS		ARMY OPERATING STRENGTH	% AR	ASAS RQMT	ASAS % OF OPER STR
350B	W1-W2	58	120.8	12.6	21.7
350B	W3-W4	42	110.5	14.3	34.0
	SUBTOTAL	100	116.3	26.9	26.9
352C	W1-W2	99	122.2	12.9	13.0
352C	W3-W4	49	77.8	19.3	39.4
	SUBTOTAL	148	102.8	32.2	21.8
352G	W1-W2	55	148.6	1.1	2.0
352G	W3-W4	23	88.5	2.2	9.6
	SUBTOTAL	78	123.8	3.3	4.2
352J	W1-W2	30	100.0	14.8	49.3
352J	W3-W4	17	70.8	0	0.0
	SUBTOTAL	47	87.0	14.8	31.5
TOTALS		373	107.5	77.2	20.7

ASAS BLOCK 1 MPT ANALYSIS

PERSONNEL IMPACTS FORCE LEVEL (3 CORPS, 8 DIVISIONS) ENLISTED

ENLISTED	ARMY OPERATING STRENGTH	% AR	ASAS RQMT	ASAS % OF OPER STR
96B E1-E4	786	128.4	16.4	2.1
E5-E6	1,557	98.9	38.4	2.5
E7-E9	609	98.1	11.7	1.9
SUBTOTAL	2,952	105.1	66.5	2.3
96D E1-E4	210	107.1	0	0.0
E5-E6	345	99.1	5.3	1.5
E7-E9	144	98.6	9.0	6.3
SUBTOTAL	699	101.3	14.3	2.0
98C E1-E4	1,233	115.1	62.1	5.0
E5-E6	1,132	99.4	102.0	9.0
E7-E9	228	99.1	7.4	3.2
SUBTOTAL	2,593	106.3	171.5	6.6
98J E1-E4	496	102.9	8.2	1.7
E5-E6	387	105.4	16.8	4.3
E7-E9	90	98.9	5.3	5.9
SUBTOTAL	973	103.5	30.3	3.1
TOTAL	7,217	105.7	282.6	3.9

ASAS BLOCK 1 MPT ANALYSIS

PERSONNEL IMPACTS FORCE LEVEL (3 CORPS, 8 DIVISIONS) MAINTAINER

ENLISTED	ARMY OPERATING STRENGTH	% AR	ASAS RQMT	ASAS % INCREASE
33T E1-E4	296	117.9	10.5	3.5
E5-E6	166	98.8	1.0	0.6
E7-E9	78	98.7	0.0	0.0
SUBTOTAL	540	108.4	11.5	2.1
52C E1-E4	1,017	95.6	3.1	0.3
E5-E6	748	109.8	0.0	0.0
E7-E9	0	0.0	0.0	0.0
SUBTOTAL	1,765	101.1	3.1	0.2
52D E1-E4	3,594	93.6	2.0	0.1
E5-E6	1,931	112.0	1.0	0.1
E7-E9	0	0.0	0.0	0.0
SUBTOTAL	5,525	99.3	3.0	0.1
63B E1-E4	7,655	98.9	15.5	0.2
E5-E6	5,268	108.4	4.1	0.1
E7-E9	2,041	102.1	0	0.0
SUBTOTAL	14,964	102.5	19.6	0.1
TOTAL	22,794	101.7	37.2	0.2

ASAS BLOCK 1 MPT ANALYSIS

TRAINING IMPACTS COURSE IMPACTS

<u>COURSE</u>	<u>COURSE LENGTH</u>
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TSE WCG OPERATOR COURSE	9 Weeks
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CCS OPERATOR COURSE	6 Weeks
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TCAE ANALYST COURSE	5 Weeks
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ASAS SUPERVISOR COURSE	5 Weeks
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ASAS MAINTAINER COURSE	6 Weeks
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ASAS BLOCK 1 MPT ANALYSIS

TRAINING IMPACTS RESOURCES

<u>COURSE</u>	<u>REQUIRED GRADS</u>	<u>ANNUAL COST (\$K)</u>	<u>NEW INSTRUCTORS</u>
TSE WCG OPERATOR COURSE	31.0	\$ 394	4.0
CCS OPERATOR COURSE	10.8	\$ 96	1.2
TCAE ANALYST COURSE	73.9	\$ 509	5.4
ASAS SUPERVISOR COURSE	16.1	\$ 139	0.6
ASAS MAINTAINER COURSE	6.9	\$ 49	0.6
TOTAL	138.7	\$ 1,187	11.8

ASAS BLOCK 1 MPT ANALYSIS

DISCUSSION